

1378	HLYDI04	876169	NO:1377, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 487 of SEQ ID NO:1378, b is an integer of 15 to 501, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1378, and where b is greater than or equal to a + 14.	
1379	HBXFF23	876170	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 948 of SEQ ID NO:1379, b is an integer of 15 to 962, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1379, and where b is greater than or equal to a + 14.	W03002
1380	HDPBG07	876172	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2921 of SEQ ID NO:1380, b is an integer of 15 to 2935, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	AW450363, AA806222, AI697498, AW379227, AI950341, AA477713, AW262972, AI762090, AI143168, AA062917, AW055125, AI708563, AA722270, AI190178, AI147612, AA188072, AI524191, AA280235, N44673, AI921393, AI291105, AI760852, W68464, N26444, AI373000, AI302843, AI097247, AI160536, T66196, AI804233, W78020, AW138636, AI423991, AI089967, C75569, AA565899, AI279995, AI565961, AW341212, H99338, AI299654, AA631426, AA419222, AA663984, W73977, AA954140,

			NO:1380, and where b is greater than or equal to a + 14.	<p>W51950, W69512, AA410280, AI491793, AI393820, AA128340, AA349786, AI424298, C75628, H29446, AA213410, AA599925, N35301, N44876, H29445, H43944, AW407957, AI186159, N95537, AA730169, AA662641, AW241690, AA838196, W04289, AA187171, F12045, W73396, H96739, AA082450, N54637, AI693584, AA514420, AI266534, W69601, AA805928, AA255924, N33412, C75660, AI351695, AA386137, AW291308, AI656702, AI242486, AW026628, AI423698, AW405587, H45912, AA582631, AA244409, T91940, AI693563, R81438, AI868184, H42592, AA355526, AA349785, T84915, AI001044, AW079738, Z29930, R80195, F09688, H43066, AW273143, R74231, AA419207, AI205120, H00493, AI918592, H23921, R81641, AA345108, AA361827, AI707909, AA310049, AA346697, W69413, AW407592, T66132, T87190, T18570, T87277, T18595, D61617, W24226, AA281534, T10717, AA213409, AA503305, AA477714, R50328, N44051, AA928401, AI018524, N74140, AA761812, W69429, AA922945, AI381590, AI347968, N24768, AR038868, AB016811, AR055261, AR038869, AR055262</p>
1381	HCVBF02	876174	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 612 of SEQ ID NO:1381, b is an integer of 15 to 626, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1381, and where b is greater than or equal to a + 14.</p>	<p>AA305198, AA134366, AA259244, AI078409, AA338262, R91816, AI591375, AI460050, AA601376, AI909130, AW338376, AA484658, AW272389, AI890297, AL035847, N54947, AA522642, AA847096, N80390, AL039471, AA078337, AA515176, AW008089, AA171400, AA595499, AW247866, AW250983, T94247, AI468971, AA349437, T05143, AA297682, AI935827, AA833896, AA833875, AA493464, AW168520, AA350593, AA610381, AA568494, AI952885, AA772140, AL044674, AW080062, AA526542, AA847711, AA665645, AA601674, AA335314, AA507745, AI050050, AW088745, AI271693, T26553, AI224583, AA320262, AA847095, AA493136, AI064918, AA743517, AI000381, AA595661, N59648, AR055262</p>

	R10475, AA679937, AW029515, AA666052, AA640685, AA218684, AA548390, AA584862, AA283455, AI440037, AA613627, AA524604, AI583321, F31380, AA523132, AL118823, AA199578, AW021105, AI918661, F18553, AW419209, AA314494, T57562, AI049845, AA551105, R92608, N26159, AI251576, AA582975, H88429, AI927275, AL040054, AI272241, AA687730, AA634882, H62123, AW169038, AA071173, AA613231, L78810, AL022330, AC004032, AC004925, AC004914, Z77249, AC004973, AF196970, AL079339, AC007649, AC007842, AC004986, AF205588, AP000031, Z75744, AL031293, AC006539, AC003668, AC005549, AL121578, AL049636, L05367, AP000038, AL021407, AL133485, AC004929, AC006026, AL035086, AC000115, AL031283, AL022165, AL031781, AP000279, AC004526, AP000135, U63834, AC005082, AP000106, AC007308, AP000305, Z98744, Z95125, AL035413, AC006251, AL109865, AL031073, AC005184, AC001226, AP000047, AP000115, AF134726, AC004996, AD000684, AP001052, AC007240, AF165141, AC006509, AC005484, AC004383, AC009731, Z98049, AC011456, AL031433, AC004087, AC007537, AC004079, Z98884, AC007541, AC005859, AC004263, AC004988, AL035653, AC002544, U91326, AC005412, AC002425, U95742, AL034419, AL009047, AC007533, Z83826, AC007216, AC002300, AC005828, AF207955, AL035460, U91321, AC004984, L29074, AP000261, AF222686, AL034379, AL031652, AC005632, AC007463, AC005209, AC002403, AP000100, AP000035, AC005048, AP000123, AP000055, AP000170, Z98048, AL079306, AL022322, AC006241, AL080239, AC002395, AL023883, AC005229, AL133396, AC004468, AC000378, Z69705, AC004063, AL033504, U91323, AL135960, AJ131016, AC004754, AC007371, AC005046, AC002110, AJ006345, AC005832,

				AC005829, AP000010, AC004961, AC005725, AL022239, AC002105, Z98050, AC005225, AC006270, AL031584, AL034451, U82828, AC008064, AP000247, AC007066, AP000255, AL049832, Z84484, Z84572, AC004853, AC002039, AC006062, AL033527, AL031733, AP000497, Z97353, AP000503, AL133353, AL008712, AC005377, AL096791, AC003676, AC005690, AC004938, AC007388, AC005876, AC006142, AP000102, AL034429, AF222685, AL121576, AC002492, Z73358, AP000351, AC008372, AC009399, Z97184, AL049829, AC004099, AC007538, AC005253, AL121694, AL122003, AC006430, AP000201, AC007539, AL022328, AF049895, AC002064, AC006385, AC005042, AC007955, AC007731, AC004975, AP000097, AC007682, AL049712, AL022163, AC009248, AL031985, AC006155, AP000356, AC005191, AC006965, AC007385, AC005988, AF128525, AC004033, AC005409, AL023095, AC004953, AL035411, AL049773, AC005154, Z84469, AC005500, AL021331, AC012380, AL031054, AF165926, Y10196, AP000354, AL008718, AL031287, AC000353, AC010205, AL050326, AC005375, U82696, AP000338, AL132987, U71148, AC004794, AC007200, AP000216, AC003098, AC005585, AC006141, AC005342, AP000352, AC006277, AC005378, AC004815, AC005660, AF023268, AL031055, AC004876, AL031729, Z68287 AI656807, AA897632, AW151919, AW271601, AA287933, AI393569, AA644542, AI248118, AA707517, AI240868, AI247781, AI076324, N68357, AI380870, T87807, AA808229, AW197425, AA835077, Z40387, AI458836
1382	HTWDI2I	876177	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 569 of SEQ ID NO:1382, b is an integer of 15 to 583, where both a and b correspond to the positions of</p>	

1383	HATED01	876179	<p>nucleotide residues shown in SEQ ID NO:1382, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 503 of SEQ ID NO:1383, b is an integer of 15 to 517, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1383, and where b is greater than or equal to a + 14.</p>	<p>AI792782, AI191919, AI765864, AI733139, AA702347, AI220405, AI423312, AI478373, AW302194, AI423507, AI916231, AI627973, AW173486, AI086574, AI701146, AI521715, AI917438, AI678790, AI925944, AI770081, AA760715, AI904742, AI582603, AI990352, AI951007, AI655622, AI650463, AW173518, AI393071, AW236096, AI989921, AI022200, AI024409, AI393059, AI695050, AA888360, AI206995, AI077536, AI474034, AI452440, AW194978, AI076106, AI206908, AA969379, AA551593, AI223442, AI302211, AI968178, AI571592, AI241002, AL034553, D86198, AF007875, AB004789</p>
1384	HWLVU14	876182	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1216 of SEQ ID NO:1384, b is an integer of 15 to 1230, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1384, and where b is greater than or equal to a + 14.</p>	<p>AI347147, AI738411, AI439130, AA514394, AA595253, AI269359, AW028586, AI936898, AI739648, AW242697, AW027766, AA081901, AI739639, AW157368, AI739255, AI393079, AI244459, AA226866, N99765, AW418654, AA480225, AA905814, AA999828, AC007501, U80736</p>
1385	HOVC112	876183	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 368 of SEQ ID NO:1385, b is an integer of</p>	<p>AA307780, AI923248</p>

1386	HCVBB01	876184	<p>15 to 382, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1385, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1188 of SEQ ID NO:1386, b is an integer of 15 to 1202, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1386, and where b is greater than or equal to a + 14.</p>	<p>AW188031, AI9222934, AA504414, AI536863, AA744849, AA972022, AA309130, AI569395, AA135144, AI570856, AW021626, AA904846, AA962329, AA737604, AI351478, AI560610, AA765375</p>
1387	HCRPM32	876187	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 561 of SEQ ID NO:1387, b is an integer of 15 to 575, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1387, and where b is greater than or equal to a + 14.</p>	<p>AA019767, AA213771, H86330, H85652, H86775, H86333, AI990107</p>
1388	HLDNV31	876192	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1658 of SEQ ID NO:1388, b is an integer of</p>	<p>AI741793, AW003635, AA425065, AL044729, AI825212, AI333124, AW102958, AA699738, AW014983, AI580520, AA653341, AI248768, AW057987, AA961070, H11570, AA913775, AI425117, AI452997, AI937807, AL039909, AL041387, AA398627, AI223186, T87214, AL045603, AI638724, AA644230, R45377, AI700094, T74013, Z21364,</p>

			15 to 1672, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1388, and where b is greater than or equal to a + 14.	AA749051, F10219, R14519, AI242930, R40666, R21286, F12602, AA887964, H11462, AA416562, Z21365, AI890224, R41179, AA829590, AA417298, AA653411, AA837654, AI221436, AA493103, AW082244, R14339, AA055888, AW389658, T67466, T97917, R08296, AB002326 AC005219
1389	HCRNN03	876193	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 434 of SEQ ID NO:1389, b is an integer of 15 to 448, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1389, and where b is greater than or equal to a + 14.	
1390	HTPIQ89	876198	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 868 of SEQ ID NO:1390, b is an integer of 15 to 882, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1390, and where b is greater than or equal to a + 14.	AI808815, AI457550, AI911077, AI658931, AI916359, AW009684, AW072228, AA579578, AA622141, AA295027, AA552628, AA594836, AA551833, AI167645, AA576815, W23220, AF114127, AB014603, AL137668
1391	HWLQD01	876200	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 409 of	

1392	HISAQ01	876201	SEQ ID NO:1391, b is an integer of 15 to 423, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1391, and where b is greater than or equal to a + 14.	
			Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 842 of SEQ ID NO:1392, b is an integer of 15 to 856, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1392, and where b is greater than or equal to a + 14.	
1393	HCRMC10	876206	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 627 of SEQ ID NO:1393, b is an integer of 15 to 641, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1393, and where b is greater than or equal to a + 14.	N24236, AI742828
1394	HWABDS3	876207	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 698 of	T25873, AW024164, C06355, AI476066, H79253, C06056, R78935, AI436456, AI064830, AL121270, AL047042, AL046849, AI349772, AI686926, AL045500, AI433157, AL047763, AI433976, AL040243, AW117882, AW071349, AI608667, AI275175, AL119049, AL044207, AI580190,

		SEQ ID NO:1394, b is an integer of 15 to 712, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1394, and where b is greater than or equal to a + 14.	AL119791, AI440426, AI500077, AI281779, AL036980, AL036146, AW074993, AI687728, AI868831, AI349645, AW268253, AI312152, AI345735, AL119748, AI567351, AI620284, AI349937, AI538716, AI469532, AI699857, AW089572, AI497733, AI818683, AW169653, AI340582, AW071417, AW301409, AL135661, AI349004, AI597750, AI499463, AI873731, AI863014, AI590128, AI800453, AW087445, AI521012, AI282655, AW162071, AI349256, AL036396, AW195957, AI250293, AI678302, AI568870, AW274192, AW148320, AI343112, AI702406, AW303152, AL036802, AI758437, AW103371, AI440239, AI680113, AI687376, AI800433, AW238730, AI597918, AI349933, AI934036, AI679724, AW068845, AI500553, AI635461, AI439087, AI207510, AL048871, AL121365, AI635942, AI857296, AI475371, AI564719, AI349614, AI920968, AI348897, AL038778, AI866608, AI499131, AI815383, AI281773, AI631107, AI499393, AI874109, AI697137, AI909641, AI636456, AI285735, AI334902, AI445432, AI625079, AL036274, AI906328, AI609592, AI583316, AI475134, AL120854, AI862142, AI540832, AI613017, AI500659, AI249257, AI687415, AI498579, AI702433, AI687375, AL038605, AI690835, AI919058, AI633419, AI866002, AI952114, AA585422, AI492540, AW074869, AI568855, AI889203, AW301300, AL120736, AI536685, AI539771, AW167776, AI671679, AI610307, AI224992, AI283941, AL119828, AI696846, AA640779, AA613907, AI909666, AI673256, AI366549, AI612913, AI349598, AL040169, AA572758, AL036759, AI818206, AA508692, AI340519, AI690751, AI349226, AI568854,

	AI567632, AI271786, AI269696, AI889839, AI038779, AW302965, AI682841, AL121014, AW166645, AW075351, AI753683, AW080838, AI684265, AI318569, AI866780, AI811353, AI307466, AI366991, AI907070, AI446606, AW302992, AI866887, AI969601, AL047041, AI679764, AI859733, AI469811, AI754897, AI439745, AI628205, AI281762, AI343059, AI811863, AI580984, AL043326, AI270055, AI813914, AL036240, AI282281, AI434281, AI802542, AL036260, AW026882, AI610645, AI499512, AW235035, AW268072, AI696398, AI800411, AW269097, AI624668, AI569616, AI909662, AI445025, AI921379, AI312428, AI251485, AW085799, AI274541, AW104724, AL036247, AI570384, AI591311, AW183130, AW132121, AI678989, AI309401, AI446628, AI620868, AL121463, AL036631, AW118557, AL042753, AI969567, AI609331, AI269205, AI282903, AI432229, AI653541, AI340603, I48979, AF090900, AL133640, AL117460, AL133606, AF090903, S78214, AF090934, AF113694, L31396, L31397, AJ242859, AL050146, S68736, AL049452, I89947, AF090943, AF078844, AL117457, AF125949, AL080060, AF090901, AF113013, AL050393, AF118070, AF113691, AF118064, A93016, AL133016, AL110221, AL110196, Y11587, AL137527, U42766, AF104032, AL049938, AF113690, AL050149, I89931, AF090896, AL122050, AR059958, AF113689, AL050116, AL050108, AL049314, A08916, AF113676, AL133075, X84990, AF113677, AB019565, AF106862, AL049466, AL133557, AL096744, AF017152, AL122093, AF113019, A08913, AF111851, AF113699, AL080137, AL133093, AL133080, AL080124, AL137283, AL050277, AR011880, Y16645, AF097996, E03348, AL133565, AL137557, AF158248, AL122123,

				<p>E07361, I48978, U91329, AJ000937, X63574, Y11254, AL137459, AL122121, AL117394, AL049430, AF146568, AF091084, AF125948, AL110225, AL050138, U00763, X82434, AL133560, AF079765, AF177401, AL117583, A65341, E02349, I49625, E07108, AL049300, AL117585, AL137550, AF017437, AL049382, AL049464, AJ238278, A08910, AF067728, AL117435, A58524, A58523, A08912, S61953, AL050024, A77033, A77035, X70685, AL122110, AF091512, I33392, AL137648, A08909, AC006371, AL133113, A03736, X96540, A12297, AF118094, Z82022, AF183393, E05822, AL122098, AL137271, AL137538, AL049283, AF061943, AC002467, I03321, U72620, AC002464, U35846, AC007390, AL137463, X72889, AL080127, AL137523, U80742, AC005992, I09360, AC006840, X65873, AL096776, X98834, AF087943, AL110197, AC004686, AF042090, Y09972, X93495, AL133072, AL122049, AC004227, AL137521, AC006336, U95739, E08263, E08264, L13297, AC004987, U67958, I17767, AL133568, AC004093, AL022147, AL080159, AF061981, U68387, U49908, M30514, AC006039, AL137429, AF026124, AL078630, I42402, AR013797, AC007392, AL035067, AC007172, AL133077, I26207, AL137526, AL137560, E15569, AC004200, AJ012755, AL050172, AC004690, AF100931, A93350, I66342, AL137533, AL035587, AL022165, AC007298, AF111112, AF000145, AR000496, U39656, AF026816, AF081197, AF119337, AC005291, AC004383, I00734, AF057300</p>
1395	HKCSF17	876208	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 906 of SEQ ID NO:1395, b is an integer of</p>	

1396	HTDA112	876209	<p>15 to 920, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1395, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1087 of SEQ ID NO:1396, b is an integer of 15 to 1101, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1396, and where b is greater than or equal to a + 14.</p>	
1397	HYABB57	876213	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 434 of SEQ ID NO:1397, b is an integer of 15 to 448, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1397, and where b is greater than or equal to a + 14.</p>	<p>N73548, AI694413, AW271652, AI082035, AI912946, AI719718, AA024658, W24189, W24182, AW015394, T79755, AA988043, AI709339, AI510754, AI656335, AL031983, AC006137</p>
1398	HWLVN09	876215	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 749 of SEQ ID NO:1398, b is an integer of</p>	<p>AI088609, AI742316, AI264197, AI803475, AI307145, AI129474, AA442089, AI886144, AI249368, AI864189, AI584049, AI696838, AW058403, AA428062, AI913435</p>

1399	HOHAU02	876220	<p>15 to 763, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1398, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 305 of SEQ ID NO:1399, b is an integer of 15 to 319, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1399, and where b is greater than or equal to a + 14.</p>	<p>AI903943, AI903949, AL035420, AC005082, AC008064, AL022727</p>
1400	HCRNJ43	876224	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1561 of SEQ ID NO:1400, b is an integer of 15 to 1575, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1400, and where b is greater than or equal to a + 14.</p>	<p>AA313797, W73983, AW374097, AA824282, AI207345, Z26317</p>
1401	HWLGV14	876226	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1299 of SEQ ID NO:1401, b is an integer of</p>	<p>AI110653, AA573785, AI421829, AI889106, AI815098, AW082282, AW151910, AA309046, AW251068, AI688082, AI935867, AA903732, AI342309, AI469758, AI301940, AI336447, AI660665, AI625318, AI636809, AI559518, AI216199, AA974182, AI336445, AI476296, AI272699, AA865622, R95048, AI832439, AI908555,</p>

			15 to 1313, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1401, and where b is greater than or equal to a + 14.	AW079674, AW276067, H71284, AI290972, AI659188, H41084, H39231, AI865986, AI333305, R76336, AI914585, AI590410, H12385, AA987621, R48364, R94963, AA639087, D45438, C20912, AI274107, AI720940, H70884, AA372940, AW250334, H15022, AI244423, AW192993, AA935031, AI199655, AI199654, H15021, AI832803, AA593195, AW269879, AA86276, AI225252, R45920, AF115384, AC006479
1402	HCYBM15	876228	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 516 of SEQ ID NO:1402, b is an integer of 15 to 530, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1402, and where b is greater than or equal to a + 14.	AA305646, D57483, C14389, D80391, D59787, D80196, D81026, D80253, D80522, D58283, D80366, D51022, D80227, D59859, D59467, D80043, D51423, D80022, C14331, D59275, D80166, D80195, D59619, D80210, D51799, D80164, D80240, D59927, D59502, D81030, D50979, D59889, D80248, D80212, D80251, D50995, D80269, D80188, D80219, C15076, D80038, AA305578, D80133, D59610, D80024, AA305409, D80193, D80378, AA514186, AW177440, AA514188, D80241, C75259, C14429, AW178893, D80045, D51060, AW377671, T03269, AW360811, AW179328, D80132, C14014, D58253, AW378532, AW375405, AW177501, AW177511, C05695, AW178762, D59373, D80134, D80268, AW366296, AW360844, D80439, AW360817, D51250, AW375406, AW378534, AW179332, AW377672, AW179023, AW178905, T11417, AW178775, AW369651, AW177505, AW179024, AW352158, F13647, D80949, AW352117, D80302, AW176467, AW352171, AW377676, D80247, AW178906, AW352170, AW177731, AW178907, AW179019, AI910186, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, D51079, AW179018, AW352174, AW179004, AW179012, AW360834, AI905856, D51103, AW178914, AW378525, C06015, AW367967, D80157, AW177722, D59627, D58101, D59503, AW177728, AW179009, D51759, AW178774, AW178911, AW378543, AW352163, AW378540, AW178983, Z21582, AW178781, T48593,

			<p>D59653, C14227, D51213, D45260, AW352120, AW177723, C14975, AI535850, AA285331, C14973, D51097, D80064, H67854, C03092, AW378533, AA809122, H67866, D81111, AI557751, AW367950, AI525917, AI525923, D80014, T03116, AI557774, D59317, D50981, D58246, AW178986, D45273, D80258, C14344, D51221, D59474, D60010, AW177734, AI525920, AA514184, AI535686, C14957, C14407, D59551, AI525227, D60214, AI525912, C14046, AI525235, C16955, Z33452, AI525242, AI525222, AI525925, C14298, T03048, AW378539, AI525215, AI525228, D80168, T02974, AW378542, C05763, AI525928, AW360855, AI525237, H67858, C04682, T02868, D51053, D51231, A62300, A62298, AR018138, A84916, AJ132110, AF058696, AR008278, AB028859, X67155, Y17188, D26022, A25909, Y12724, A67220, D89785, A78862, D34614, D88547, X82626, A82595, I82448, A94995, AR060385, AB002449, AR025207, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR054175, AB012117, AR066490, Y09669, A43192, A43190, AR038669, AR066487, I14842, I18367, A30438, X68127, Y17187, AR008277, AR008281, A63261, D50010, A85396, D88507, AR066482, X64588, A44171, A85477, I19525, A86792, AR062872, A70867, AR016691, AR016690, U46128, X93549, AR008408, A64136, A68321, I79511, D13509, AR060133, AF123263, X72378, AR032065, U79457, AR008382, AA897516, AW408837, AA975111, AI375439, AW058357, AI831278, AA429693, W17288, N92884, AI800566, H90037, W25564, N89755, AW075779, N90701, H64915, H64916, AA019995, AA864899, AF177934, L47207, I36298, X97874</p>
1403	HTXOU56	876229	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1396 of SEQ ID NO:1403, b is an integer of</p>

1404	HHFCN93	876232	<p>15 to 1410, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1403, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1428 of SEQ ID NO:1404, b is an integer of 15 to 1442, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1404, and where b is greater than or equal to a + 14.</p>	<p>AA769099, AW051928, AI701149, AW166012, H14423, AA972142, AI339332, N92764, R59745, AA100558, AI383947, AA347767, AA015757, AI338203, AA347768, D81417, H72916, AA805417, D20390, AI025219, R52023, H14749, AA504717, AC006366, Z55318</p>
1405	H2CBC05	876236	<p>15 to 1689, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1405, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1675 of SEQ ID NO:1405, b is an integer of 15 to 1689, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1405, and where b is greater than or equal to a + 14.</p>	<p>AI743549, AI953907, AW444710, AI457576, AA452352, AI744355, AW169608, AA452129, AA809771, AI284062, AA307160, AW363101, AI865348, AA907553, AI620087, AI936509, AA618311, AA456277, AA454662, AA173381, AA534032, AI369959, AW000933, AW298707, AW363100, AA478933, N90372, AI186424, C14331, D80166, AA809122, D80439, D80247, D59619, D80210, D80240, AI557751, D59927, D81026, D80022, D81030, D80219, D80212, D80133, C14389, AA305409, C14014, D80391, D59787, D59859, AA514186, D59502, D51423, D51799, D80253, D80043, C14344, D80522, D51060, D80196, D80157, D80268, C15076, D80248, D80366, D80195, D58283, D80188, D80164, D59467, D51022, D59275, D80038, D80227, D50995, D59610, D57483, D80193, D80045, D80269, D59889, D59653, D50979, D80024, AA305578, D51759, D80302, AA514188, AW360811, T03269, D80241, D80251, AI535686, AW377671,</p>

	D80378, D51103, C06015, AW177440, T03116, AI525923, C05695, AW178893, D45260, C75259, D58246, D59373, AW375405, AW360844, H67866, C14407, C03092, H67854, C14973, AW366296, AW177501, AW178906, AW177511, AW360817, AW179328, AW179020, T48593, AW375406, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, D80064, AW177731, AW378528, AW178762, AW178754, AW179019, AW179024, AW377676, AW378532, D81111, T11417, Z21582, AI525917, AW360841, AW352120, D51221, C14227, AW177505, AW178775, F13647, D80258, AW178909, AW177456, AW179004, D59503, AW352170, D51250, AW178986, AW178907, AW177733, AW178908, AW179018, AW352158, AW178971, AW360834, AW352117, D59317, D80014, D59474, N66429, AI525920, AW177734, AW378533, D80949, AA514184, AW367950, D58101, AW179009, AW179012, AW178980, AW178914, AW178774, AW178781, AW378543, AW378540, AI557774, C14957, D60010, H67858, AW179013, D59551, D80168, C14298, AI525235, Z30160, AW178759, AI525215, AW178911, AI525227, AW378525, C14046, AW352163, AW378539, AI525912, D80228, AW177728, D59695, Z33452, AA285331, D51053, D45273, AI525242, C16955, D59627, D51213, AW378542, C05763, AI525925, AI525222, T02974, D13645, A62298, A84916, A82595, AR018138, A62300, A30438, AR008277, AR008281, Y17188, Y17187, AR008278, AF058696, AR060385, AB028859, AJ132110, AB002449, I50126, I50132, I50128, I50133, U46128, AR016691, AR016690, X82626, AR016514, I14842, X67155, AR060138, A45456, A94995, D26022, A26615, AR052274, A43192, Y12724, A43190, AR038669, A25909, AR066488, Y09669, AR066487, X68127, A67220, D89785, A78862, D34614, AR054175, AR008443,

1406	HTEPE28	876238	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 694 of SEQ ID NO:1406, b is an integer of 15 to 708, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1406, and where b is greater than or equal to a + 14.</p>	<p>A63261, D88547, D50010, AR062872, A70867, AR008408, A64136, A68321, I79511, AR025207, D13509, AR060133, AF123263</p> <p>AA205046, AA383391, AI184616, AA223825, AI825541, AI469846, D42084</p>
1407	HUSGL79	876239	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 824 of SEQ ID NO:1407, b is an integer of 15 to 838, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1407, and where b is greater than or equal to a + 14.</p>	<p>AA045573, AA279920, R20139, AA372783, H21473, AB010812, AC004520, AF125534, AC007225</p>
1408	HPMFU84	876259	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 918 of SEQ ID NO:1408, b is an integer of 15 to 932, where both a and b correspond to the positions of</p>	<p>AI017564, AA809290, AW002023, AA405338, AA806993, AA405339, AA888974, AA236935, AI024655, AA262702, H49789, AI524770, N77703, AA362512, T88993, AA328171, C01908, U43374</p>

1409	HDLAD09	876260	nucleotide residues shown in SEQ ID NO:1408, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 751 of SEQ ID NO:1409, b is an integer of 15 to 765, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1409, and where b is greater than or equal to a + 14.	W79877, Z42158
1410	HCQAW45	876261	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 518 of SEQ ID NO:1410, b is an integer of 15 to 532, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1410, and where b is greater than or equal to a + 14.	AI829532, AL008582
1411	HCYAC01	876265	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 538 of SEQ ID NO:1411, b is an integer of 15 to 552, where both a and b correspond to the positions of	AA308914, AA308913, D59927, D50979, D80227, D58283, D80188, D80253, D80195, D80043, D59275, D80269, D59502, D59859, D80022, D80166, D80366, D81030, D51423, D59619, D80210, D51799, D80391, D80240, D59787, D80378, D80038, D80212, D80045, D80193, D80196, D80164, D80219, D57483, C14389, D59889, D50995, D80024, D59467, D59610, C14331, C15076, C14429, D80241, D51060, AA305409, T03269, D80522, D58253, C75259, C14014,

			<p>nucleotide residues shown in SEQ ID NO:1411, and where b is greater than or equal to a + 14.</p> <p> AW17893, D81026, D80134, AA305578, D51022, AW179328, D51250, D80268, AW177440, F13647, AW378532, AW178775, D80251, D80949, AW369651, D80168, D59695, AA514188, D52291, D51079, C14227, AW352158, D80248, AI910186, D81111, AW178762, AI905856, AW177501, AW177511, AA514186, D80133, AW360811, Z21582, C14298, D80064, C05695, AW352117, C14407, AW176467, AW375405, AW377671, D80132, AW360834, AW378540, D80302, AA285331, AW366296, AW360844, AW360817, AW375406, AW378534, D51097, AW179332, AW377672, AW179023, AW178905, AW352171, AW377676, D80439, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, D59373, D80247, AW179220, D80014, AW177505, AW360841, AW179020, AW178909, T11417, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, AI557751, D51103, AW179004, AW179012, C06015, AW352174, AW178914, T03116, AW378525, AW367967, D80157, AW177722, D51759, AW179009, AW177728, AW178774, AW178911, AW378543, AW352163, D80258, AI557774, AA809122, D59653, AW178983, AW352120, AW178781, D45260, T48593, D59627, T02974, C03092, AI535850, AW177723, H67854, H67866, AW378539, AI525923, D59317, D51213, D45273, C14975, T03048, D59503, AW367950, AW178986, D59474, AA514184, AI525917, AI525227, D58246, D60010, C14973, C14344, AW378533, C14957, D59551, AI535686, D51221, AW177734, AI525920, D60214, D58101, AI525242, C14046, AI525912, AI525235, C16955, AI525925, AI525237, AI525215, AW378542, C05763, Z33452, AI525222, AW360855, T02868, D31458, C04682, H67858, AI525928, C13958, U49017, A84916, AJ132110, A62300, A62298, AR018138, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, D88547, </p>
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1412	HCROF86	876266	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1086 of SEQ ID NO:1412, b is an integer of 15 to 1100, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1412, and where b is greater than or equal to a + 14.</p>	<p>AR008278, AF058696, X82626, AB028859, I82448, AR025207, Y12724, AB012117, A82595, X68127, AB002449, AR060385, AR016808, A85396, AR066482, A44171, A94995, A85477, I19525, A86792, U87250, X93549, AR008443, I50126, I50132, I50128, I50133, AR016514, AR066488, AR060138, A45456, A26615, AR052274, I14842, Y09669, AR066487, A43192, A43190, AR038669, AR054175, A30438, AR066490, Y17187, I18367, A63261, AF135125, D88507, AR008277, AR008281, D50010, AR062872, A70867, AR016691, AR016690, U46128, AR008408, I79511, A64136, A68321, AB033111, D13509, U87247, AR060133, AR064240, AF123263, AR032065, U79457, X93535</p> <p>AI650543, W69438, W69521, H10084, AA489949, R13756, Z43027, F07990, F06224, AA326226, AW388196, AW388234, AW388225, AW388262, AW388176, AW388206, AW388208, AW388214, AW388253, AF086275, AB024057, AB017114, U88873</p>
1413	H2CBJ83	876269	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 549 of SEQ ID NO:1413, b is an integer of 15 to 563, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	<p>AA403070, AA313305, AA361460, T78498</p>

1414	H2LAW73	876270	<p>NO:1413, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 569 of SEQ ID NO:1414, b is an integer of 15 to 583, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1414, and where b is greater than or equal to a + 14.</p>	AA315703, AI796815, T99503, AI049875, D80022, D80391, D59787, D80253, D81026, D80196, C14389, D80522, D80366, D80195, D59502, D59467, D80164, D59275, D80227, D58283, AA305578, D80193, D80043, D50979, D59859, C14331, D80166, C15076, D51423, D59619, D80133, D80210, D51799, D80240, D80212, D50995, D81030, D80269, D80248, D80038, D80188, D80219, D59927, D80251, D57483, D59610, D80378, AA305409, D51022, D80045, D59889, D80024, AA514188, AW177440, D80241, T03269, AW178893, AW377671, AA514186, AW360811, AW179328, C14014, AW378532, AW375405, D80268, AW352117, D51250, AW178762, D80168, AW366296, AW360817, AW375406, AW378534, AW352171, AW179332, AW377672, AW377676, AW179023, AW178905, AW178754, AW179024, D52291, D80302, F13647, AW179020, AW177456, D80439, T11417, AW178906, AW177731, AW178907, AW179019, AW179018, D80247, C06015, AW378528, AW178908, D51103, Z21582, AW360834, AW178914, AW178781, AW378543, AW378525, AW378540, AA593344, D80157, D59627, D59503, AW178774, AW352163, D58101, AA809122, T48593, D80064, T03116, C14227, D45260, AI525923, AI557774, AA285331, D51213, C03092, H67854, H67866, D80258, AW378533, D81111, D59317, AI557751, D45273, AW367950, AW178986, D59474, AI525917, T03048, D58246, AW378539, AW179013, D80014, C14973, C14344, AA514184, AI525227, AI535686, D51221, D59551, AI525920, C14407, Z30160, H67858, AI525242, AI525235, AI525925, C16955, AI525912, T02868, Z33452, T02974, AI525215, D31458, C13958, C14298, AW378542, AI525237, AJ132110, A84916, A62298, AR018138, AF058696, A62300, AB028859,
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1415	HWMCL22	876274	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 404 of SEQ ID NO:1415, b is an integer of 15 to 418, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1415, and where b is greater than or equal to a + 14.</p>	<p>AR008278, X67155, Y17188, D26022, A25909, Y12724, A67220, D89785, A78862, D34614, I82448, D88547, A82595, X82626, AR016808, A94995, AR060385, AR025207, AB002449, AR008443, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, I14842, Y09669, A43192, A43190, AR038669, AR054175, AR066487, AR062872, A30438, Y17187, X68127, A63261, D50010, AR008277, AR008281, A70867, AR016691, AR016690, U46128, AR008408, I79511, A64136, A68321, AR060133</p> <p>R86344, R86183, AC004686</p>
1416	HCRPZ42	876276	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 499 of SEQ ID NO:1416, b is an integer of 15 to 513, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1416, and where b is greater than or equal to a + 14.</p>	<p>AA285061</p>
1417	HCYBM32	876277	<p>Preferably excluded from the</p>	<p>AA305407, D51423, D51799, D80166, C14389,</p>

<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 428 of SEQ ID NO:1417, b is an integer of 15 to 442, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1417, and where b is greater than or equal to a + 14.</p>	<p>D80133, D80522, D81030, D51060, D80248, D59610, D80366, D81026, D59859, D59619, D80210, D80240, D80253, AW377671, D80269, C14331, D58283, D80212, D50995, D80188, D59467, D51022, D80022, D50979, D80219, D80227, D80195, AA305409, D80391, D80164, D59275, D80038, D80043, D59787, D59502, D80241, D80251, D57483, D59889, D80196, D80024, D59927, AA514188, C15076, C14014, AA305578, D80193, D80268, AA514186, D80045, D80378, D80439, AW360811, AW177440, C14429, AW178983, C75259, AW178893, C06015, D59373, D80247, T03269, D80302, AW375405, AW360844, T11417, AW177501, AW179328, AW177511, AW366296, AW360817, AW375406, AW178906, AW378534, AW352171, AW179332, AW377672, AW179023, D80157, AW178905, C05695, AW378532, AW377676, D51103, AW360834, D51759, D80134, AW177505, AW360841, AW178775, D80132, D58253, D59653, D81111, AW178909, AW352170, AW178762, AW177731, AW367967, AW178907, AW378528, AW178754, AW179019, AW179018, AW179024, AW352117, D51250, AW176467, AW369651, D45260, AW179020, AW177456, F13647, AW179329, AW178980, AW352158, AW178914, AW177733, AW178908, AW178971, T48593, AW352174, AW179017, AW179004, AW178774, AW378543, AW179009, AW179012, D80064, D80258, C14227, D58101, AW352120, AW378525, AW352163, D80014, H67854, C14077, D50981, D58246, C03092, AI525923, T02974, AW178911, H67866, AW177722, AI910186, AW177728, AA514184, AA809122, T03116, D59503, AW367950, AI905856, AW378540, D59317, C14407, AI525917, AW178781, AI535959, AI525920, D45273, D51221, T03048, D60214, C14344, D59474, AW178986, C14973, AW378533, AI557774, AI535850, AW378539, AW177734, AW177723, C14957, D60010, C14298, AI535686, AI525235, D59551, AI525215,</p>
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1418	HCRPJ72	876278			<p>AI557751, AI525227, D80168, C14046, D59627, AI525222, AW179011, AI525912, AW179013, D51213, AI525242, AA285331, AI525925, Z21582, D51097, H67858, C16955, Z33452, Z30160, AW378542, C05763, D80949, AW178759, AI525928, AW360855, AI525237, D59695, D52291, D51053, C04682, C06084, T02868, D50312, AF015606, D50313, AF015605, D50314, D88159, E12830, A62298, AR018138, AR008278, AF058696, A84916, A62300, AJ132110, AB028859, AF015607, A82595, AR008443, AR060385, X67155, Y17188, D26022, Y12724, A25909, AB002449, A94995, A67220, D89785, A78862, D34614, I50126, I50132, I50128, I50133, D88547, AR066488, AR016514, AR060138, A45456, A26615, AR052274, X82626, AR025207, Y09669, A43192, A43190, AR038669, AR066487, I14842, AR054175, A30438, Y17187, AR066490, AR008277, AR008281, A63261, D50010, I18367, X68127, AR062872, A70867, AR016691, AR016690, U46128, AR008408, I82448, A64136, A68321, I79511, AB012117, D13509, AR060133, AR066482, A85396, D88507, AF123263, A44171, AR032065, A85477, I19525, A86792, U79457, X93549, AR008382</p> <p>AI346422, AI246769, AI304342, AI910457, AI381007, AA541292, AI129972, AA496921, AW089855, AA627519, AA627188, AW082592, AA923632, AA577580, AW439990, AI650301, AI676154, AC004080, U41813, AF010258, U81511, X13537, X13536, M28449</p>
1419	HKCSA58	876280	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 915 of SEQ ID NO:1418, b is an integer of 15 to 929, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1418, and where b is greater than or equal to a + 14.</p>	<p>Preferably excluded from the</p>	<p>AI5979</p>

1420	HMWFC49	876281	present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 230 of SEQ ID NO:1419, b is an integer of 15 to 244, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1419, and where b is greater than or equal to a + 14.	AW410053
1421	HMSIE02	876282	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 158 of SEQ ID NO:1420, b is an integer of 15 to 172, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1420, and where b is greater than or equal to a + 14.	AW451452, AI040326, AI650832, AA313243, AI650393, AI818259, AA534633, AI094737, AI033652, AI693411, AI341518, W30723, AW197245, AW051598, AW291994, AI274289, AI221551, AA035621, AA653321, AA634950, AA781232, AA136077, N99062, AA806117, AA136161, AA722867, AA932876, AI435016, AI659053, AI474321, H87560, AA843369, H21542, AA361623, N47604, N45494, AI907694, AA332538, H87452, AI284255, AA037342, AA365059
1422	HCRMZ34	876284	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2279 of SEQ ID NO:1421, b is an integer of 15 to 2293, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1421, and where b is greater than or equal to a + 14.	AA034416, AA491400, AA504783, W65331, AI885434,

1423	HTGAM27	876300	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1646 of SEQ ID NO:1422, b is an integer of 15 to 1660, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1422, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 296 of SEQ ID NO:1423, b is an integer of 15 to 310, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1423, and where b is greater than or equal to a + 14.</p>	<p>AI553873, AI637992, AW172551, AA236838, AA053881, AA482166, AI680567, AI184074, R43006, AA491299, W61314, AA884262, R17801, AA888033, U96876</p> <p>AA187449, AW361774, AL034396, L14787, Z99130, AL031115</p>
1424	HCVBI20	876304	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3092 of SEQ ID NO:1424, b is an integer of 15 to 3106, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1424, and where b is greater than or equal to a + 14.</p>	<p>AI433336, AI763355, AI911988, AI436136, AI609777, AI859398, AA197062, AA305389, AI346370, AW271204, AA825907, AW242356, AI910841, AI673503, AI632367, AW269183, AW196356, AW273255, AI304550, AI419935, AI270299, AI247514, W01219, AI355117, N72988, AA030042, AW007158, AA070475, AW006961, AI304462, W57671, AA876039, AA705874, AA831500, H62242, AA897761, W03289, AA029912, AA305307, H93491, W91963, H82187, AI245415, AA643520, AW088307, H93492, R89908, AA377111, AI318375, AI961885, AA059231, AA883186, AW139085, AA581261, T85676, Z40302, AA887782, AA502293,</p>

				<p>AW264318, H62331, R93209, R07861, AA360792, H82082, T29678, F01458, AA527320, H61166, AI270229, AI932770, AW070350, R07916, AI765901, F04303, N74218, AA581216, AW268185, AI334444, AW274341, AW268947, AA128235, AI699588, AA128234, AI581851, C14331, D80022, D58283, D59927, D80247, D80248, D80043, C14389, D80227, D59467, D51799, D80439, D59502, D50995, D59859, D80522, D80166, D80195, D51423, D59619, D80210, D80391, D80164, D59275, D80240, D80253, D80038, D80269, D59787, AA305409, D51060, D81030, C14429, D81026, D80212, D80268, D80366, C15076, D80196, D80188, D51022, D50979, D80219, D80378, D59610, AA305578, AA514188, C14014, D57483, C03092, D59889, D80193, D80133, D80045, AA594216, D80024, AA514186, C06015, D80302, D80157, AW360811, D51103, AW177440, D59653, D51759, D80241, D80251, AW178893, T03269, AW377671, AW375405, C75259, H67866, D45260, H67854, T11417, AW352170, AW366296, AW178906, C14344, AW360844, X12901, A07400, M98454, A14103, A26237, X04657, AF058696, A62300, A82595, A84916, A62298, AB028859, AR060385, AJ132110, AR018138, AR008278, AB002449, I50126, I50132, I50128, I50133, AR016514, AR054175, X67155, AR060138, A45456, I14842, Y17188, A94995, D26022, A26615, AR052274, A43192, Y12724, A43190, AR038669, A25909, AR066488, Y09669, AR066487, Y17187, A67220, D89785, A78862, D34614, A30438, AR008443, A63261, AR008277, AR008281, AR062872, A70867, AR016691, AR016690, U46128, D50010, D88547, I79511, X82626, A64136, A68321, AR008408, X68127, AR025207, AR060133, AF123263, AR032065, AA297291, AA504969, AA504982, AL119401, AA622598, AL134137, M20317, X14448, AL035422,</p>
1425	HNEDH18	876306	Preferably excluded from the present invention are one or more	

1426	HWMFQ61	876308	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 338 of SEQ ID NO:1425, b is an integer of 15 to 352, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1425, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1953 of SEQ ID NO:1426, b is an integer of 15 to 1967, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1426, and where b is greater than or equal to a + 14.</p>	U78027, M18242	AA769602, AA524145, AW007155, AI127421, AI826426, AI815931, AW193517, AI951907, AA290918, AA573859, AI879177, AI912328, AW070886, AI376231, AI352472, AW296096, AI956172, AA283702, AA583479, AA486429, AI095623, N91996, AA405889, AI089975, AA493377, AI147623, AA147930, H09366, AI879560, AI698813, AI493913, AA580211, AA737974, AI476337, AA423896, N24051, N32340, N66204, AA405729, AA507484, AI374680, AA489431, AA157554, AA147501, N35409, AA505515, AA489372, AA127433, N55519, H15112, AA173145, N57433, AA471177, AW401453, N63852, T78215, AA857801, N52066, H09309, AA780883, AL079771, AA356048, AA769879, AA173273, R25268, AA127432, R46621, AI707462, AA807765, AI423315, AA877529, AA836375, AA352973, AA148410, H85254, AA356047, AA326793, AA678778, R53945, AA278977, N99204, AA335034, R07396, AA423831, AA367574, AA715745, H84922, AI762734, R07347, F05138, AA058460, AW339712, AI701737, T29480, AA995682, AI815735, N48041, AI362375, N35874, F01382, AA329166, AA295203, AI476572, AA370912, H15111, AW182730, H09397, AA772378, AA158205, AA564008, D19907, AW161156, AI540674, AI918449, AW020406, AI587121, AL041150, AW020397, AI491904, AI564716,
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	AI923989, AW021717, AW410302, AI224373, AI307557, AA464646, AW020592, AI289310, AI623941, AI859991, AW236692, AI609760, AI879064, AI267185, AI567582, AL042753, AW020095, AI811603, AI621341, AI311472, AL038986, AI049850, AI927233, AI656188, AI560722, AA806534, AA502794, AI350489, AI679506, AW020710, AI961414, AI633383, AI580214, AL048871, AI349012, AI521005, AL079963, AL036705, AI525653, AI581033, AI590943, AI758445, AA580663, AI432570, AA641818, AI589428, AW192109, AW051059, F28295, AI242248, AI741158, AI499963, AW102798, AW021066, AW084056, AW057937, AW148876, R36363, AI638644, AI537677, AI434731, AW148478, AI141727, AW020373, AL048323, AI432507, AW169784, AL048340, AI382313, AI587209, N22276, AA514684, AI282268, N29277, AI538764, AI440263, AW020419, AI587000, AW160905, AW162194, AI273856, AI491710, AI891125, AW151136, AI536685, AI499279, AL079799, AI860027, AW129106, AI697236, AI797538, AI458588, AI348901, H41759, AI500061, AI372009, AW327825, AW022168, AA455772, AI699865, AW020629, AI002285, AI279925, AW085350, AI241901, AL138406, AL046466, AI281757, AI270295, AI632036, AI471282, AI500514, AW073996, AI872423, AI950892, AI341690, AW051088, AI890907, AI624245, AI524654, AI633125, AI472484, AW265582, AI698391, AI538564, AL036361, X15653, Y09008, A64377, AC007637, X89398, AC010582, Y08975, X99018, U55041, AL110292, X92986, X79093, A64383, AB016226, AL133637, I89947, U49908, E01614, E13364, I48978, AF175903, AL050024, AL122050, AL137529, AL137533, A08910, A08909, AL117460, AF026124,

	AF145233, A08908, Y11254, AL133560, AF082526, M85164, X70514, AL049996, AL050172, AJ005690, AR038854, AL110296, AF090900, AL080156, AF118090, AL137258, A08913, AF094480, I08319, U91329, J05277, AL049283, AF087943, A08912, AF146568, AF113690, AL133080, U42766, S76508, AL137523, AL035407, AL117587, AL133623, X82434, E06788, E06790, E06789, AF061795, AF151685, AF177401, AL137480, AF031147, AL137459, M96857, AL133568, AL137550, A91160, AL137539, AB031064, A08916, E05822, AL133640, AL049347, AL050277, AF118094, X06146, Y09972, E12747, A21103, AF159148, S36676, X99257, X60786, Y13350, AL137530, A76335, AR038969, AF111851, X63162, AF079763, AF111849, AL137574, S77771, S83440, S68736, A08911, AL080118, A18777, AL122110, AF061943, X67688, Y16645, AL110218, AF113699, AF069506, AF141289, U86379, I48979, AJ010277, I89931, A77033, A77035, AF017790, Z72491, AL117457, AL133606, D16301, I89934, I49625, A08907, L04849, AF065135, AF081366, S69385, AL133016, AJ003118, AL096728, AL050280, U55017, AL110199, AL110269, A15345, AL117648, AL049324, A07588, AF067728, A65341, Z13966, Z82022, X86693, AL122093, Y07905, AL117435, AR034821, AL137555, U35846, L04504, Z97214, X98066, AR020905, L13297, AL049339, AL137560, AL110221, X59414, AF158248, AL110228, AF106657, AL080148, AJ006417, AF008439, X83508, S78214, AC006112, AF061981, AR013797, L04852, X76228, X66862, AL137478, U02475, Y10936, AL110197, AL133112, AF016394, M27260, AL023657, AF125948, AL110225, AL137488, AL096751, Z35309, A18788, AF115410, E01573, E02319, I33391, AL049430, X89102, M85165, AL137479, AC002467, AL122049, AF118092, AL117416, U95114, X92070, AL137254, AL080074,

1427	HFIUZ10	876309	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 865 of SEQ ID NO:1427, b is an integer of 15 to 879, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1427, and where b is greater than or equal to a + 14.</p>	<p>AL050116, AF026008, AF039138, AF039137, AL049452, I32738, A23630, AF077051, AL110159, X63410, Y10655, S63521, AL049300, A86558, AF090943, X79812, AL110196, AF176651, X84990, AB007812, E01314, Z37987, AL133075, A07647, AF124728, AF036268, AL122045, I66342, AL050146, AL137485, AL133113, AL133619, AF102578, X96540, AR011880, AR053103, AC004878, Y10823, AI140058</p> <p>AI148053, AA449704, AW080161, AA580334, AA448557, AI453006, AA863038, AI277552, AA723892, AI282002, AA879085, AI282089, AA928469, T81791, AA258329, AI271667, R02362, T82108, H66854, AC004080, M74297</p>
1428	HDPJE43	876322	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 507 of SEQ ID NO:1428, b is an integer of 15 to 521, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1428, and where b is greater than or equal to a + 14.</p>	<p>AA305011, M73047, X81323, U50194, A58393, M55169, A58395</p>
1429	HWLWR2 2	876326	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AW291224, AA027791, AI826645, AI970074, AI859242</p>

1430	HCRNJI16	876327	<p>the general formula of a-b, where a is any integer between 1 to 292 of SEQ ID NO:1429, b is an integer of 15 to 306, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1429, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 731 of SEQ ID NO:1430, b is an integer of 15 to 745, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1430, and where b is greater than or equal to a + 14.</p>	<p>ALI35311, AA576997, N33567, AI239529, AI474303, AW242213, AA665114, AI003594, AA983676, AI832948, AA890557, AA251288</p>
1431	HPRAZ22	876330	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 917 of SEQ ID NO:1431, b is an integer of 15 to 931, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1431, and where b is greater than or equal to a + 14.</p>	<p>AA634082, AA663929, AW451471, AW451304, AA700185, AA780866, AA634109, AA974089, AI422746, AI422171, AW117387, AI352179, AI934740, T29406, AA581945, N51197, AI813713, AW274227, AA884819, AI418378, N71535, AI250177, AI479657, AI491976, R70651, AA864343, AW051516, C01561, AA926708, AA595570, AA913798, N47990, AA927688, AA465663, AW008553, AI735695, AI014415, AW086054, AA731995, AI631350, N68464, AA688150, N66020, AI422914, R68953, AW380659, AI831007, AI057418, R24219, AW401518, AI476095, AI492721, AA805457, AW392708, AA040547, N52290, AW362897, D57651, AI814638, R46574, R24220, AA769734, D56634, R74511, D57409, N91308, R78553, R77666, R46649, AI351922, R63467, AW090402, H80687, AI567650, R70873, T83969,</p>

1432	HWLQG81	876333	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 350 of SEQ ID NO:1432, b is an integer of 15 to 364, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1432, and where b is greater than or equal to a + 14.</p>	AA370839, R23184, R68106, H04104, R78403, R68836, D56912, D56797, F01477, R23183, N30106, D56629, R68150, AI699279, R70543, R82008, N45543, R48545, D56817, AI276541, AI908540, R77667, R78505, R63400, AA459439, N26395, R69802, M28697, M90727, M31932, I07269, J03619, M90735, M28696, M31933, X52473, M31934, M31935, X17653, L08108 AA832206, AA974370, W46279, AW196653, AI023212, AA464174, AI420451, AI948608, AI890342, AA114888, AW300598, AI129358, AA669095, AA504203, AA521314, AA252310, AA280044, AA165321, AI718165, AI765613, AI797687, AA877638, N69756, AI831132, AI027401, AI701050, AA863081, AI807828, Z40146, AA995204, T71333, AI935316, Z19443, AI918466, F00129, Z28882, D57019, AL047889, AW369458, AA743770, AL047888, AW025464, D54675, AW149925, AW302960, AL036802, AA504439, AI927755, AL041772, AW163823, AW162194, AI866608, AL036274, AL041562, AL119863, AW238730, AL045500, AI699865, AI909697, AI340519, AI537677, AL110306, AI433157, AI698391, AI929108, AW026882, AI620284, AL079863, AI254727, AA640779, AI349645, AA613907, AW051088, AA572758, AL038505, AI699011, AI590043, AW129264, AL037454, AW059828, AW269098, AW268251, AW161156, AI064830, AL039086, AW020693, AW268768, AW300782, AI349933, AL036403, AI340603, AI581033, AI923989, AL119828, AW082113, AW300889, AL119791, AI309401, AW172745, AL036396, AL048656, AI349598, AL041150, AW020397, AI589428, AI783504, AI284517, AW161579, AW198075, AI567351, AL047344, AI813914, AL080046, AW089572, AI610293, AI753683, AW074993, AL079960,
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	AL040169, AW268253, AI500659, AI950892, AI312152, AI815232, AI500523, AI468872, AW160916, AW162071, AI349937, AL036638, AI348897, AI345180, AW150578, AI625464, AW302965, AL047042, AI252414, AW080402, AI802542, AI633125, AW087445, AI868931, AI348901, AW071417, AI864836, AL036673, AW301300, AL037582, AL037602, R36271, AW161202, AI270183, AI521012, AI312428, AW023859, AL118620, AW163554, AL135022, AI702073, AL046931, AI610645, AI539771, AI349614, AL038605, AI343112, AW302992, Z99428, AI866770, AI473536, AI499963, AL080045, AI560012, AI366549, AL121014, AI567582, AI345735, AL043355, AI801325, AI815855, AL038779, AL119748, AL036980, AI889189, AL134830, AI890507, AW068845, AI612885, AA579618, AI636456, AI866820, AI564719, AL119049, AI358701, AI497733, AL121365, AA528822, AI754897, AI091468, AI500662, AI440263, AL040241, AI472536, AW022808, AI697324, AI251221, AA493647, AI538850, F37471, AW301409, AI884318, AI860783, AI624293, AI345688, AL036146, AL039716, AW074869, AI307543, AL047100, AI335426, AI348777, AW071362, AL037030, AI569583, AI475371, AI635492, AI349256, AW075207, AI673363, AI343037, AW403717, AI669864, AW020419, AW149236, AL036901, AI682841, AI859991, AL120695, AI613038, AA580663, AI568114, AL119399, AI537837, AI683395, AL040456, AL036240, AI536685, AI307604, AL036631, AI538716, AA641818, AC002350, AL096744, I48979, U35846, I89947, AL122050, I09499, I48978, Y16645, AL110196, AL117457, U87620, AF090903, Y11587, AF177401, AF090943, E07108, AL133075, AL050116,

AF090901, AL122093, AF100931, AL137550, M27260, AF090900, A08916, AL133606, AF078844, AL137538, A08910, AL049382, AF146568, AF090934, A65340, AL137271, AF183393, S78214, AL133565, A77033, A77035, AL133640, A08909, AL133016, A08913, AF113019, AL133557, I89931, AL050149, AF113013, AF090896, X70685, AF113691, AL137488, AF079765, AL133560, AF079763, AL137533, AF104032, AF113694, AF125949, AF017152, AF097996, AL049938, AL137557, AF031147, AF125948, AL050146, AL117435, U42766, I00734, AB019565, AL049300, AL049283, E05822, E00617, E00717, E00778, E12747, AL080124, AR013797, AF067728, AF087943, AL049452, AL110221, X63574, AL050277, AF113690, AL133080, I33392, U58996, AL122100, AL096720, E02221, AF091084, E02349, AL137548, AL137480, AL122110, AJ000937, AL049430, AL137459, L31396, AL137527, AL050393, L31397, AF106862, AR011880, AB016226, AL050024, AL117460, AL050108, E01614, E13364, A58524, A58523, AF017437, AF118064, A65341, AF118070, AL137478, I49625, AF111849, S68736, X72889, AL080060, AR038854, AF118090, AF113676, AL133113, AF057300, AF057299, AL080148, AF113699, AL050172, Z82022, AJ242859, X84990, AL080234, A03736, AF032666, A93016, AL137283, AL049466, E06743, AL049314, AF111851, AF158248, A08908, AF061943, AL133067, AL122098, AL137529, AL122121, AL137479, U72620, AF113689, X79812, Y11254, AR059958, AF106697, U80742, AL122123, A08912, AL2297, AL137521, AF102578, AJ005690, E07361, X82434, AJ238278, AL023657, AL110225, AF113677, AF153205, AF026124, AL096751, U68387, AL137294, S61953, AF118094, AL117583, Y09972, A86558, A07647, AL080137, AB029065, AF067790, D83032, AF100781, X80340, AF210052, A18777,

1433	HOENU48	876334	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2579 of SEQ ID NO:1433, b is an integer of 15 to 2593, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1433, and where b is greater than or equal to a + 14.</p>	<p>AF159615, AL117649, AL080158, Z37987, AL050138, U91329, X83508, AL137526, X87582, U92068, AL117416, U96683, AL137658, AL133568, AF185576, AL117394, AL050155, A21103, A08911, AL133093, D16301, AL137292, AF081197, AL080074, AR020905, AL080159, I17544, AF090886, Y14314, U78525, X65873, AL110218, AF119337, E03348, AF126247, U95114, U67958, AF065135, AL137560, AL133665, AL137558, AL050092, AJ012755, AF081195, AL15345, X81464, AL049464, AL117585, AL110222, AL050366, A18788, AL137463, AL137429, AR038969, X63162, AL110197, AF061795, AF151685</p>
1434	HOUDK26	876335	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1038 of</p>	<p>AA521311, AA521314, AW300598, AI051218, AI631949, AA669095, AW298550, AA278335, AI694270, AW339489, AI797687, AA464762, AI948608, AI807828, AA810071, AA804200, AI718165, AA662808, AA504439, AI129358, AI632884, AI215774, AI299255, AA452985, AI765613, AA114888, AI348428, AA114887, AA504203, AI129632, AI701050, AI890342, AA256836, AI023212, AI935316, AA974370, AA252310, AA831496, AA705444, D57415, AA464174, AA280044, Z44155, Z25261, D54675, AA165321, T71333, AI420451, AA973497, N69756, T71487, W46279, AA877638, AI027401, AA255623, AA863081, AW196653, H47827, AA832206, AA995204, AA252340, Z28882, W46278, T48511, Z40146, AI831132, AA743770, D57019, AA344612, T84473, N87679, AI918466, Z19443, F00129, D56990, AI351209, AL047889, AW369458, AL047888, AC002350, D82786</p> <p>H20994, H45211, H45368, H40040, H45293, H45192, AA205743, T24020, T90417, H20955, R70326, AF075043, AC004755, AC005516, AC005519, AL049836, AL080243, AC007358, AC004106, AC008394, AC005234, AC007546, AC005089, AL031597, AL031056, AC003690, AC005523,</p>

1435	HODDG78	876340	SEQ ID NO:1434, b is an integer of 15 to 1052, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1434, and where b is greater than or equal to a + 14.	AC002316, AC004861, AC002472, H30375
			Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 651 of SEQ ID NO:1435, b is an integer of 15 to 665, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1435, and where b is greater than or equal to a + 14.	AW247764, AA442668, AA491177, AW248120, AL048314, AA479828, AA421873, AW248094, H75462, Z42343, F06148, AA923747, F06007, AI445056, R14715, F13060, AR025386, X86779
1436	HAMFP80	876345	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1090 of SEQ ID NO:1436, b is an integer of 15 to 1104, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1436, and where b is greater than or equal to a + 14.	AI219740, AI478566, AI632246, AA279757, AA977612, AA716656, AA687260, AI801069, AA071046, AI985849, AW370598, AA630617, AW370599, AW370625, AA134295, AW390691, AI990289, AA134294, AA428452, AI143764, D30955, AW370620, AA352142, AA074442, T83462, AW071043, T79236, AI744728
1437	HWHQB10	876354	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 345 of	H40868

1438	H2LAB47	876361	SEQ ID NO:1437, b is an integer of 15 to 359, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1437, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 395 of SEQ ID NO:1438, b is an integer of 15 to 409, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1438, and where b is greater than or equal to a + 14.	AA307985, AL044985, AA361756, AA016093, AA133547, AA046950, AF126424, AF106065, AF076838, AL122068, AJ001642, AJ131295, AJ004977, AF017748, AF098534, AF085736, AF106066, AC004993, AF098533
1439	HUBAR28	876364	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 390 of SEQ ID NO:1439, b is an integer of 15 to 404, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1439, and where b is greater than or equal to a + 14.	AA355924, N83684, AA214701, H94179, AW298728, AI056829, AA278566, AA093069, T67190, AF092563
1440	HCEFA76	876370	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 338 of	AL079827, AA503895, AB002353

			SEQ ID NO:1440, b is an integer of 15 to 352, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1440, and where b is greater than or equal to a + 14.		AI491957, AA446825, Z42384, W86347, AC002064, T73581, T73682, T89320, T89957, R27248, R27450, R48643, H84547, H99963, N28347, N63131, N64745, N76150, AA047464, AA047398, AA086034, AA099567, AA099657, AA165569, AA169522, AA169441, AA173617, AA173616, AA169406, AA215775, AA251330, AA251391, AA258330, AA258494, AA258798, AA258704, AA258149, AA258122, AA419346, AA602860, AA622286, AA683139, AA683138, AA713685, AA743062, AA807661, AA825739, AA825993, AA828448, D78955, N87351, AA165525, AA210972, AA211395, AA416558, AA845854, AA971491, AA985073, AI023629, AI073499, AI090846, AI092089, AI093295, AI096814, Z41403, Z45751, AI302012, AI357671, AI367709, AI367710, AI201715, AI202745, AI445483, AI433348, AI478813, AI146981, AI151439, AI184769, AI658554, AI521058, AI537563, AI301471, AI634487
1441	HCQB131	876372	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 543 of SEQ ID NO:1441, b is an integer of 15 to 557, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1441, and where b is greater than or equal to a + 14.		AI811832, AI732557, AA151182, AI610370, AI672898, AI874058, AI758608, AL079276
1442	HTEGD78	876374	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 554 of SEQ ID NO:1442, b is an integer of 15 to 568, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1442, and where b is greater		

1443	HCYBN59	876376	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 640 of SEQ ID NO:1443, b is an integer of 15 to 654, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1443, and where b is greater than or equal to $a + 14$.</p>	AA305677, D80212, D80248, D80268, C14331, D57483, D80227, D59927, D80269, D80133, D59619, D80210, D80240, D80378, D80166, D80219, D81026, D80439, C14389, D80157, D81030, C14429, D80522, C15076, AA305409, AW178983, D80195, D51060, D80022, D80366, D59859, D59502, D51423, D51799, D80253, D80045, D59467, C14014, D58283, D80188, D80391, D80164, D59787, D59275, D80043, AA514186, D59889, D59610, D80193, D80196, D80251, D51022, D50979, D80024, D50995, AW377671, AA305578, D59373, D80038, D80302, AA514188, D80241, AW360811, D80247, AW17440, AW178893, AW352163, D51759, AW375405, T03269, C75259, D80258, AW178906, AW179328, AW366296, C05695, AW360844, AW360817, AW375406, D51103, AW378534, AW179332, AW377672, AW179023, AW178905, AW377676, AW378532, C06015, D80132, D80134, AW177501, D59653, AW177511, D80949, D59627, AW352171, AA809122, AW352170, AW177731, AW178907, AW378528, D59503, AW178762, AW179019, AW179024, D58253, D51250, AW176467, AW367967, AW360841, AW177505, AW179020, T48593, AW178775, AW360834, AW178909, AW177456, AW369651, AW352158, AW179329, AW178980, AW178914, AW177733, AW178908, AW178754, AW179018, D80014, D80064, AI557751, AW352117, AW178774, D45260, AW352120, D51213, AW179004, C03092, D51079, F13647, AW179012, D80168, AW378525, C14344, D59695, AW378543, AI525923, AW352174, AW177728, H67854, N66429, AW179009, D80228, D81111, AW367950, AW178911, AW177722, AI910186, AW378540, H67866, C14077, T11417, AW178781, AI905856, C14407, AW177508, D58246, AI525917, AW360855, C14227, D58101, D51221, T03116, AW178986, AW177497, T02974, Z21582, AI535850,
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			D59317, D59474, AW177723, D45273, C14973, AI525920, AW378533, AA514184, AI535959, C14957, AW177734, D60010, AI535686, C14298, AI557774, D59551, AI525235, C14046, T03048, D60214, AI525215, AI525227, AI525912, AW378539, D51097, AI525242, AA285331, D50981, AW179011, D51053, AW378542, AI525925, AI525222, C05763, C13958, C16955, Z33452, Z30160, AA305720, A62298, A84916, AR018138, AR008278, A62300, A82595, AB028859, AJ132110, AF058696, Y17188, X67155, D34614, A67220, A45456, AR060385, AB002449, D26022, A25909, A94995, Y12724, D89785, A78862, A30438, AR008443, I50126, I50132, I50128, I50133, D88547, AR066488, AR016514, AR060138, X82626, A26615, AR052274, A43192, A43190, AR038669, I82448, I14842, Y09669, AR066487, Y17187, X68127, AR025207, AR054175, D50010, A63261, AR066490, AR008277, AR008281, I18367, U46128, AR008408, AR062872, AR016691, AR016690, A70867, A64136, A68321, D13509, AR060133, AB012117, I79511, U79457, AF123263, AR032065, T52855, T56234, T65208, R26874, R49147, R49147, R56838, R63286, R68208, R68209, R76931, H08236, N21262, N23372, N32910, N42052, N47538, N63310, N63321, W00634, W46981, W47082, AA043968, AA043955, AA046699, AA057059, AA058538, AA102644, AA131696, AA131540, AA186895, AA188518, AA494518, AA632935, AA714553, AA741529, AA767851, AA808213, AA812138, AA847682, AA938741, AA995568, AI000554, W00650, AA477265, AA779560, AA868920, AA969270, AA936409, AI023812, AI093513, T25142, F02925, T52854, F09719, AI274698, AI285351, AI346806, AI469317, AI478311, AI540692, AI478825, AI144017, AI160890, AI625377, AI610977, AI291591, AA305023, AI352123, AI245481, AI909228, AI915162
1444	HCYBC31	876379	Preferably excluded from the

			present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 885 of SEQ ID NO:1444, b is an integer of 15 to 899, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1444, and where b is greater than or equal to a + 14.	
1445	HCQBM44	876380	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 351 of SEQ ID NO:1445, b is an integer of 15 to 365, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1445, and where b is greater than or equal to a + 14.	
1446	HKCSP75	876381	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 362 of SEQ ID NO:1446, b is an integer of 15 to 376, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1446, and where b is greater than or equal to a + 14.	
1447	HKCSP84	876382	Preferably excluded from the	AC000402, AC002322

			present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 289 of SEQ ID NO:1447, b is an integer of 15 to 303, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1447, and where b is greater than or equal to a + 14.	
1448	HPMFF45	876383	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 511 of SEQ ID NO:1448, b is an integer of 15 to 525, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1448, and where b is greater than or equal to a + 14.	R52326, AL110125
1449	HE2CTS2	876385	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 605 of SEQ ID NO:1449, b is an integer of 15 to 619, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1449, and where b is greater than or equal to a + 14.	H74219, AA315682, AA904381
1450	HTNB176	876386	Preferably excluded from the	AW083135, AA808057, AI745495, AA599616, T36219,

<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 302 of SEQ ID NO:1450, b is an integer of 15 to 316, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1450, and where b is greater than or equal to a + 14.</p>	<p>AI918013, AA937922, AI591300, AI868123, AI041990, AA342254, T33591, D44838, F16827, AI360911, R11202, D25779, AI521589, AA076707, AI978792, AW068394, AA347093, AA323085, AA359192, AI446474, F17700, AL045709, AA077776, AI633427, AA533408, AA558298, AA835710, AA330573, R87547, AI151261, AI370475, AA297968, AI699060, AI114477, T92957, AI952780, AA972238, AA857296, AA663306, W23546, AW268277, AA643261, AI251111, AL042113, F26719, AA825357, AI132963, T47739, AI538812, AA548087, AA425924, AI890385, AA485716, AI538540, AA828762, H05073, AW419262, AW193493, AA527730, AI865988, T78484, AA468051, AW272763, AI049996, AI801141, AI913324, N84161, R82388, H82895, AW451360, AI053786, AI148927, AI445592, AI042342, AA487219, AA384039, AA572960, AL046782, AA487079, AI754013, AA492313, AI923011, C13960, AW271904, AI753951, AA634209, AI755085, AA614010, AA235575, AW238016, AA467988, AI791150, AI623899, AA063139, AI114752, AA362395, AW407340, AA935377, AI859946, H73174, AA775049, AA581914, AI634323, AI470956, AW419081, AI979005, AI671035, AI952900, AA708678, AA311071, AA814510, AA743989, AI696901, AI754923, AA663701, AA357307, AI859834, T52783, T65812, AI755236, AI475332, AL120976, AI915081, AA569182, AA664135, AA831904, AA526656, AW189278, AA569743, AA632845, AA714956, AA664789, AA525209, AA507625, AI252506, Z36239, AI241705, AA776552, H55878, T80500, AW176024, AI261913, AI275742, AL037910, AA829033, AC004084, AC004253, AC018767, AC006120, L78810, AC007055, AL031055, AC002400, U62317, AC005288, AL035587, AP000355, AC005341, AL021391, AL049780, AC005209, AL035455, AL034379,</p>
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	AL035450, AL121655, U76377, AF029750, Z82172, AL109827, AC005184, AC005778, AC006958, AC005071, AL031257, AC009286, AC006132, Z82214, AL035687, AC006146, AC004993, AL031295, AL049611, AF001549, AC006115, AC005670, Z98257, AC004815, AL121748, AL121603, Z85986, AL034421, AC005015, Z49258, AC007860, Z84572, AP000030, Z97200, AC002073, AL031767, AC004837, AC005666, AF196969, AC005339, AC005011, AL035458, AF111169, AC004797, AC005800, AL031846, AL121652, AP000459, AL024498, AC006160, AC002045, AC002472, AC002558, AC004485, AC005225, AF190465, AP000112, AC006501, AC005624, AC005081, AC005726, AC006026, AP000513, AC005911, AL049552, AF045555, Z99943, AL031659, AL050307, Z97630, AL031054, AC004821, AC007406, AP000140, AC005306, AL049557, AC005088, AL109967, AC007437, AP000036, AC007536, AC007899, AC007114, AF042090, AC005480, AC006547, AC004386, AC004876, AC005251, AC003041, AL022316, AC005378, AL080242, Z85987, AC006965, AC007021, AC003104, AF134726, AC006013, AC006064, AL096774, AB020866, AP000133, AP000211, AC006049, AF064863, AC007993, AL031311, AF015262, AL035697, AF205588, AC005231, AC007151, AL034547, AC007488, L44140, AL021546, AC006299, AF146367, Z98036, AP000144, AL031282, Z99128, AF053356, AL133243, AL035451, AC007283, AC002996, AC005082, AC010582, AL031589, AL034420, AP001054, AL132985, AL034451, AC006116, AF118808, AC006380, AC007298, AP000065, AC002316, AP000088, AC005786, AC000003, AC005598, AC005663, AC006978, AL031733, AC004050, AC002538, AC005284, AP000216, Z93241, AC007227, AL049845, AC004849,

1451	HE9ND38	876387	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 351 of SEQ ID NO:1451, b is an integer of 15 to 365, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1451, and where b is greater than or equal to a + 14.</p>	<p>AP000474, AC006344, Z75744, AC007390, AL049795, AL022721, U91321, AC005808, AC004448, AC010197, AP000517, AL031291, AL021808, AC005366, AL031681, AC003982, AC005874, AF134471, AL132712, AC004647, AL078593, AC007565, AC005751, AL031594, Z82206, AL031286, AP000959, AC004000, AC007510, AC006530, AC005280, AC007649, AP000230, AC005971, AC006480, AL022165, AC002364, AL132992, AC006323, AC004020, AC005821, AF006501, U63721, AC005799, AL050312, AF038458, AL021397, U95742, AL031121, AF124523, AC004227, AC003101, AL022323, AF019413, AJ229043, AJ003147, AP001037, AC006285, AC009464, AC006039, AC005048, AC002377, AP000692, AC005245, AC006597, AC002365, AL049643, AL050318, AC005057, AC002115, AC007221, AC004814, AC004111, AL035462</p> <p>AA334551, AA307537, AF002996</p>
1452	HPIAK40	876395	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 756 of SEQ ID NO:1452, b is an integer of</p>	<p>AI902815, AI910057, AI902293, AR062079, E05133, AI4565, I19407, E05330, E05331, E05332, A27627, E05329, E03742, E06073, I19413, I19414, E15669, AR028747, A58083, E17345, I12374, AR062080, E17343, E17344, E05159, E05147, E05139, E05134, I57961, E05162, E01336, I12376, E17339, E17340, E17341, E17342, A37179, E05144, E05135, I21469,</p>

				15 to 770, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1452, and where b is greater than or equal to a + 14.	E05152, E05153, I21461, I90026, E05143, A14547, I21454, I31067
1453	HHPGD10	876397		Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 548 of SEQ ID NO:1453, b is an integer of 15 to 562, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1453, and where b is greater than or equal to a + 14.	AW361614, AB023235
1454	HCQB147	876398		Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1753 of SEQ ID NO:1454, b is an integer of 15 to 1767, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1454, and where b is greater than or equal to a + 14.	AA527356, AI093930, AI635756, AW150892, AW340249, AI683004, AA574295, AA578334
1455	HE8DW67	876399		Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 386 of SEQ ID NO:1455, b is an integer of	AA308646

1456	HONAH83	876400	<p>15 to 400, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1455, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 998 of SEQ ID NO:1456, b is an integer of 15 to 1012, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1456, and where b is greater than or equal to a + 14.</p>	<p>N44636, AW292774, AA398365, H29990, R92869, AA403200, N44265, AA362919, AI914181</p>
1457	HHGCW95	876401	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 623 of SEQ ID NO:1457, b is an integer of 15 to 637, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1457, and where b is greater than or equal to a + 14.</p>	<p>AA573757, AA161293, AA524449, AI742214, AA622626, W96506, AI476586, W96473, AA570007, AI216739, AW168439, T06973, AI268257, AI702993, AA502262, AI911816, AI796804, AA480659, AA552367, AI709265, AI809403, AI445236, AA552072</p>
1458	HCYBI75	876402	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 528 of SEQ ID NO:1458, b is an integer of</p>	<p>AA305438, AA056382, AW188096, AA308744, AI702438, C14389, D59927, C14331, D80022, D50995, D80166, D80212, D80391, AW178983, D59787, D59619, D80210, D80240, D80045, D80268, D58283, D81030, D80196, D59467, D51022, D59859, D51799, D80227, D80195, D51423, D80164, D59275, D80253, D80043, D59502, AA305409, D80219,</p>

<p>15 to 542, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1458, and where b is greater than or equal to a + 14.</p>	<p>D80269, D80248, D81026, D80366, D80188, D50979, D80522, C14429, C15076, D59610, AA305578, D51060, D80193, D57483, D80038, C14014, D59889, D80133, D80024, AA514188, AA514186, D80439, D80378, AW360811, AW177440, D80247, D80241, D80302, D80251, AW178893, T03269, AW377671, AW375405, D80157, AW178906, AW179328, AW366296, C75259, AW360844, AW360817, AW375406, D51103, AW378534, D51759, AW179332, AW377672, AII39921, AW179023, AA056479, AW178905, AW378532, C06015, AW352170, AW177501, AW177511, D51250, C05695, D59373, D80132, AW352171, AW377676, AW177731, AW178907, T48593, AW378528, AW178762, AW179019, AW179024, D80134, D59653, D58253, AW176467, D59627, AW367967, AW177505, AW360841, AW369651, AW179020, AW178775, AW178909, AW177456, AW360834, AW179329, AW178980, AW178914, AW177733, AW178908, AW178754, AW179018, AW352158, AW352117, D45260, AW178774, D58101, D59503, F13647, AW352120, AW179004, AW179012, AW378525, AW352163, T11417, D80949, H67854, D80168, C03092, AW378543, AW352174, H67866, AW177728, AW367950, AA809122, AW179009, AW178911, C14344, AW177722, D51213, AW378540, AI910186, D80228, AI525923, D80064, AW178781, D80258, AI905856, C14227, D45273, C14973, C14046, T03116, AI525917, D58246, D81111, D59317, D80014, AA514184, AC004510, AC002384, U95626, AC006013, U88897, AC003013, AL050339, AC005145, AC004768, AL139054, AC005090, AC002530, AC006364, AC007207, AL121879, Z56740, AF058696, A84916, A62300, A62298, AB028859, AJ132110, AR018138, AR008278, A82595, D26032, AR060385, AB002449, X67155, A25909, AC004791, Y17188, A94995, Y12724, A67220, D89785, A78862, D34614, AR008443, I50126, I50132, I50128,</p>
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1459	HCRMK04	876404	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 517 of SEQ ID NO:1459, b is an integer of 15 to 531, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1459, and where b is greater than or equal to a + 14.</p>	<p> I50133, A43192, A43190, AR060138, D88547, AR066488, AR016514, A45456, I14842, A26615, AR052274, I82448, AR038669, X82626, Y09669 AI057537, AI862687, AI686128, AW002455, AA875951, AI783596, AI050998, AI273307, AI374905, AI224513, AA460225, AI042000, AI610450, AI829581, AA775736, AI364904, AI698790, AA844090, R71519, AI860091, AI523843, AI767012, AI473515, AI350561, AW188551, AL119399, Z99396, AL119324, AL119457, AL119443, AL042544, AL134524, AL036418, AL038837, AW392670, AL037051, AL036725, AA631969, AW372827, AL039074, AW384394, AL119497, AL119418, AL036858, AL134920, AW363220, AL036924, AL119483, U46341, AL119319, AL038509, AL039564, AL039085, AL119396, AL039156, AL039108, AL039109, AL039128, AL119484, AL119363, AL119341, AL119391, AL119355, AL119335, U46350, AL119522, U46349, U46351, AL119496, AL037094, AL037526, AL039659, AL036196, AL036190, AL037639, AL042965, AL038531, U46347, AL042614, AL037085, AL119444, AL036767, U46346, AL037082, AL042975, AL119464, AL037205, AL119488, AL134533, AL119439, AL036268, AL039625, AL039648, AL045337, AL038520, AL134538, AL036238, AL134518, AL042984, U46345, AL038447, AL042909, AL039678, AL039629, AL134527, AL042433, AL039386, AL042551, AL134531, AL039423, AL037077, AL042970, AL043029, AL042450, AL043011, AL043019, AL037615, AL038851, AL042542, AL036998, AL036733, AL037178, AL043003, AL036765, AL036719, AL037027, AL039410, AL036679, AL036774, AL037021, AL036191, AR060234, AR066494, A81671, AR023813, AR064707, AR069079, AB026436, AR054110 </p>
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1460	H2CBFI3	876405	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 593 of SEQ ID NO:1460, b is an integer of 15 to 607, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1460, and where b is greater than or equal to a + 14.</p>	AA307313, AA312913, AI203434
1461	HKCSO44	876408	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 107 of SEQ ID NO:1461, b is an integer of 15 to 121, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1461, and where b is greater than or equal to a + 14.</p>	
1462	HWLKU83	876409	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 692 of SEQ ID NO:1462, b is an integer of 15 to 706, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1462, and where b is greater than or equal to a + 14.</p>	AW014464, AA693558, N74561, AI024015, AA332850

1463	HE9RM22	876418	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1751 of SEQ ID NO:1463, b is an integer of 15 to 1765, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1463, and where b is greater than or equal to a + 14.</p>	<p>AI492422, AI357898, AW296940, AA931635, AW296456, AI038836, AI265919, D59291, AA694009, AA700680, H06163, H66881, R23681, T86478, T86479, H81425, AI016343, Z38898, T16577, Z42746, Z42275, T89377</p>
1464	HCRPQ93	876419	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:1464, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1464, and where b is greater than or equal to a + 14.</p>	
1465	HPDDL36	876420	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 184 of SEQ ID NO:1465, b is an integer of 15 to 198, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1465, and where b is greater than or equal to a + 14.</p>	<p>AA366524</p>

1466	H2CBM09	876422	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 500 of SEQ ID NO:1466, b is an integer of 15 to 514, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1466, and where b is greater than or equal to a + 14.</p>	AA307727, AL121460, Z56847, Z57345
1467	HKCAA10	876425	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 635 of SEQ ID NO:1467, b is an integer of 15 to 649, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1467, and where b is greater than or equal to a + 14.</p>	AA192455, AW294111, AA707196, AI924499
1468	H2CB125	876426	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 465 of SEQ ID NO:1468, b is an integer of 15 to 479, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1468, and where b is greater than or equal to a + 14.</p>	AA307505, AA360083

1469	HKISB80	876427	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 385 of SEQ ID NO:1469, b is an integer of 15 to 399, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1469, and where b is greater than or equal to a + 14.</p>	AA718982
1470	H2CBE84	876428	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 446 of SEQ ID NO:1470, b is an integer of 15 to 460, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1470, and where b is greater than or equal to a + 14.</p>	AA307365, AW009512, AI609285, AI659851, AA301898, AI671626, AI818892, AW025713, AA490857, R40307, AA700491, AI273067, AA834371, AI368173, AW316631, C05075, AA480122, AA348046, D59610, AA089704, D80241, D59467, Z21582, D80212, D80045, D59859, D51423, D80188, D80166, D58283, D81030, D59619, D80210, D51799, D80240, D80253, D59889, D80195, D80038, D80022, D80219, D80043, D80391, D59275, D57483, D59787, D80227, D59502, D80366, D80196, D50995, C14331, D80164, D59927, D80269, D50979, D80024, D80193, D80378, C14389, C14014, C15076, AA305409, D51060, C75259, T03269, D58253, C04935, AW178893, F13647, D80134, D59695, D81026, D80268, D51250, D80522, D51022, D80949, AW179328, AW352158, AW378532, AW177440, AA305578, D80168, AW369651, D80248, D51079, D81111, D80251, C14227, D52291, AW178762, AA514188, C14298, D80133, AA514186, C14407, AW360811, AI557751, AW378540, D51097, C05695, AW375405, AW360834, AA285331, AW377671, D80132, AW366296, AW360817, AW375406, AW378534, AW179332, AW377672, AW179023, D80439, AW178905, AW179024, D80302, D59373, AW179020, AW177456, AW352171, AW377676, AW178906, AW352170,

				<p>AW177731, AW178907, AW178754, AW179019, D80247, D58101, D80014, AW179004, AW179012, D51759, AW178980, AW177733, AW378528, AW178908, AW179018, T11417, H67866, T03116, D80157, AW178914, AW178781, AW378525, D51103, D59627, C06015, AI557774, AW352120, AW177728, AW178774, AW178911, AW378543, AW352163, D80258, D59653, D45260, T02974, D59503, D51213, T48593, H67854, AI525235, H67858, C03092, AW378533, AA809122, AW367950, D80064, AW178986, AI525923, D58246, C14957, D59551, AA514184, AI525917, D50981, D45273, D59474, C14344, D51221, D59317, D80228, C14973, AI525920, C14046, D60010, AI535686, AI525912, AI525227, AI525215, AC002036, A62298, AJ132110, A84916, A62300, AR018138, D88547, D34614, X67155, Y17188, D89785, D26022, A25909, A67220, A78862, AR008278, A45456, X82626, AF058696, AB028859, AR025207, Y12724, AB012117, X68127, AR066482, A85396, A82595, A44171, A85477, A94995, I19525, A86792, U87250, AR060385, X93549, AB002449, AR008443, AR016808, AR064240, I50126, I50132, I50128, I50133, A30438, AR066488, AR016514, AR060138, A26615, AR052274, Y09669, A43192, A43190, AR038669, I14842, AR054175, AR066487, I18367, AF135125, Y17187, A63261, D88507, AR008277, AR008281, D50010, A70867, AR062872, AR016691, AR016690, U46128, AR008408</p>
1471	HSEBD08	876431	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1993 of SEQ ID NO:1471, b is an integer of 15 to 2007, where both a and b</p>	<p>AA781174, AW242810, AI888669, AI572847, AW301246, AA773636, AA053054, AA112389, AA053397, AA699864, AA112388, AA974581, AI524767, AW377081, AW016549, D62897, AA954644, AA169505, AW377047, AA092662, AW362046, AA629163, S72869</p>

			correspond to the positions of nucleotide residues shown in SEQ ID NO:1471, and where b is greater than or equal to a + 14.		
1472	HPMFM22	876432	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 386 of SEQ ID NO:1472, b is an integer of 15 to 400, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1472, and where b is greater than or equal to a + 14.	R42236, AI268027	
1473	HDHEB14	876435	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1264 of SEQ ID NO:1473, b is an integer of 15 to 1278, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1473, and where b is greater than or equal to a + 14.	AI913961, AA621915, AI768685, AW009951	
1474	HAIDH43	876436	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:1474, b is an integer of 15 to 475, where both a and b	AI744435, AA725348, AI910436, AA771917, AW275132, AI915670, AI217575, AA772389	

1475	HJAL27	876440	correspond to the positions of nucleotide residues shown in SEQ ID NO:1474, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 428 of SEQ ID NO:1475, b is an integer of 15 to 442, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1475, and where b is greater than or equal to a + 14.	AA354378, AA397949, AA007514
1476	HASAB14	876441	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1005 of SEQ ID NO:1476, b is an integer of 15 to 1019, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1476, and where b is greater than or equal to a + 14.	AI381990, AA523925, AI381991, AI673419, AA535262, AI990950, AW369662, AI272934, AI150565, AW316722, AI142707, AW338227, AA487031, AA486591, AI968726, AA614168, AA632457, AA122026, AA482527, AA512956, AA658276, AA541675, AA451748, AI677810, AI587642, N64192, AI250993, AA424310, AI905464, AA229168, AA122025, AL035541
1477	HWLNS47	876444	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 843 of SEQ ID NO:1477, b is an integer of 15 to 857, where both a and b	AA279461, R59258, T80331, Z45041, F13132, T75390, AA099543, AA669197, H08922, H57648, AW304022, AA304745, W79474, AW118919, R59760, W86555, R18710, AF083033, AR028451, AF072860, Z84477

1478	HE8UJ03	876447	correspond to the positions of nucleotide residues shown in SEQ ID NO:1477, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2757 of SEQ ID NO:1478, b is an integer of 15 to 2771, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1478, and where b is greater than or equal to a + 14.	AW340972, AI763378, AI745530, AI400359, AA634799, AW373755, AA406542, AW008882, AI379597, AW373615, AI858439, AI380423, AI628029, AW074041, AI538874, AW189012, AA857364, D82303, AA224830, AA132792, AA224831, AA524982, AW364047, AI678604, AI142902, AA133068, D82445, H39906, AA593133, AA644624, AA888921, AA411736, AI992380, AI679729, AA904079, AA494400, AA577041, AI282492, AI640743, AW074288, AI535647, AA551421, AA336073, AA505483, AI469669, AI284099, AI284098, AI201463, AI872908, AI610272, AA829570, AI290109, AI903549, AI903561, AI611723, T11347, AI903513, AA337475, AI567336, AI925611, AW389340
1479	HDJLK03	876448	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2051 of SEQ ID NO:1479, b is an integer of 15 to 2065, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1479, and where b is greater than or equal to a + 14.	AA442527, AW262626, AW391549, AW304931, AI669606, AI858160, AA085664, AA659697, AI632828, AA134338, AA984772, N22162, AA085613, AW197240, AW129348, W26560, AI311237, AI336661, AI343171, AW274348, AA581646, AI344929, AA935005, AI017643, AI335437, AA847210, AA730055, AW268074, AW089030, AI382955, AA662650, AW193002, AA648105, AI933533, AA782687, AA389680, AA334191, AW370221, AA373813, AI914719, N71529, AA186588, AW363311, AA373153, AI120820, D20893, AI557148, T24490, AA249060, AI741448, W73136, W73116, AI251367, AF086334
1480	HMTBC69	876451	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by	D50810, U62768, U62769, U32990, U76997, AJ131025, AJ131026, AJ131027, AJ131028

1481	HMUBP81	876452	<p>the general formula of a-b, where a is any integer between 1 to 706 of SEQ ID NO:1480, b is an integer of 15 to 720, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1480, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1153 of SEQ ID NO:1481, b is an integer of 15 to 1167, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1481, and where b is greater than or equal to a + 14.</p>	<p>AI279547, AI083565, AI804064, AA252212, AA306506, AI083894, AI183913, AI288218, AA973053, AA252213, AI440455, N23315, AI300175, AW152434, AI864289, AI217669, N32475, AA825339, AI564974, AA765563, N23439, AA234876, AA235303, T47445, AA311785, AI147554, AA738131, AI560760, AA993026, T90472, AA573442, AI279529, AA193637, H11688, AI937674, T47444, AA740441, D81882, H96821, T83136, AI219090, AA573498, AA371301, AA809694, AA193600, AA766413, AA258658, AA258659, C01339, AL008729</p>
1482	HAPOT58	876458	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2115 of SEQ ID NO:1482, b is an integer of 15 to 2129, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1482, and where b is greater than or equal to a + 14.</p>	<p>AL037788, AI686047, AI753484, AI636777, AI861877, AI935355, AI144560, AI192999, AI806026, AA081086, AI140416, N52261, AI984946, AI126835, AI375382, N31999, AI431922, AI000687, AA281546, AI354844, AW368199, AI806020, AI192995, AA432212, AI796776, AI765555, AI436119, N62465, AA416953, AI392798, AA504837, AA993835, AI942228, N74643, AA962052, N31979, H80204, AI340563, AW025654, W95677, AI373352, AA928965, AA505730, AA598619, AA281547, AA455805, AI373515, AA919147, AI879179, AI65682, AI350119, AI143974, AA283875, AI810436, AI761126, AA456624, AA931610, AI634994, AI149059, H58033, AA282093, AI762032, AI867892, W39405, W15216, AA456424, AI493979, W26521, AI418808, W95891, AA470851, N92893,</p>

1483	HCFLR18	876459	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 519 of SEQ ID NO:1483, b is an integer of 15 to 533, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1483, and where b is greater than or equal to a + 14.</p>	<p>H81006, AA136357, AA359333, N50738, AI309586, AA783008, AW293385, AA373138, AW363229, AI919006, T81361, W95965, AA283984, AA371258, AI589997, AA605260, AA370986, AI690377, AA359446, W73659, H78829, AA113788, AI761221, AI469943, AA609846, AI864350, W25612, R24652, AA360514, AI907228, AA831054, AA355628, H78428, AI473940, AA291183, AA745877, AA136269, T24969, AI693730, AA706077, N83393, AA070852, AI905829, AI587625, N88059, AW363223, AI559993, AA526788, AI216608, AW371352, AI634388, N79184, AW363222, AA594328, AA400847, AI209205, AA393670, H83189, AF161432</p> <p>AA807288, AL036653, AL036654, AI289925, AI291875</p>
1484	HDPAA38	876464	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 887 of SEQ ID NO:1484, b is an integer of 15 to 901, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1484, and where b is greater</p>	<p>AA873176, AA931378, AI218111, AI014843, AA379509, AL021155, AC004663, AC005379, AL096702, AF187320, AL117258, U95740, AC004797, Z95704, AC004636, AC005071, AP000952</p>

1485	HCBM66	876465	than or equal to $a + 14$. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 768 of SEQ ID NO:1485, b is an integer of 15 to 782, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1485, and where b is greater than or equal to $a + 14$.	AA116082, AA305687, C14014, D80269, D80227, AA809122, AA305409, C14389, D80391, D59787, D80196, D58283, D59859, D80022, C14331, D80166, D80195, D59467, D51423, D59619, D80210, D51799, D80164, D59275, D80240, D81030, D80253, D80043, D59502, D80212, D80188, C15076, D80219, D59927, D57483, D80366, D80038, D50979, D59889, D80193, D50995, D80024, D59610, D80378, H67854, T03269, C14429, AW178893, D80241, D80045, AW179328, D51060, AW177440, D51022, C75259, AW378532, AW369651, AA305578, AW178775, AW178762, D51250, AW352158, D80134, AI910186, D80251, D81026, D80248, H67866, AW177501, AW177511, AA514188, AW360811, F13647, D80522, C14227, D58253, AW352117, AA514186, AI905856, D80133, AW176467, AW375405, AW352163, D80168, AW377671, AW377676, AW360834, AW366296, C05695, AW352171, AW360844, D81111, AW360817, AW375406, C14298, AW378534, AW179332, AW378540, AW377672, AW179023, AW178905, D80064, D80268, C14407, D80132, AW352174, AW178906, AW352170, AW177731, AW178907, AW179019, AW179024, D80439, U91321 AC008122, AL021808, AC007649
1486	HPWAY46	876469	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 877 of SEQ ID NO:1486, b is an integer of 15 to 891, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1486, and where b is greater than or equal to $a + 14$.	
1487	HLTAH77	876470	Preferably excluded from the	AI359524, AW003850, AI089719, AI359474,

			present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1167 of SEQ ID NO:1487, b is an integer of 15 to 1181, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1487, and where b is greater than or equal to a + 14.	AI652055, AI948841, AI824819, R87348, F13369, T77492, Z43232, N50592, F11622, AA360610, F08357, AF035282
1488	HWLXX39	876471	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 491 of SEQ ID NO:1488, b is an integer of 15 to 505, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1488, and where b is greater than or equal to a + 14.	AI879483, AA553761, AW363300, AW162358
1489	HPTWG85	876472	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 637 of SEQ ID NO:1489, b is an integer of 15 to 651, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1489, and where b is greater than or equal to a + 14.	AI652564, Y17108, Z92544, Y17258
1490	HE6BS09	876473	Preferably excluded from the	AL120741, AA573741, AW409804, AA191552, W93042,

<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2954 of SEQ ID NO:1490, b is an integer of 15 to 2968, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1490, and where b is greater than or equal to a + 14.</p>	<p>AW402618, AW409704, AA496304, AW073345, AW300845, AA744892, N39760, AW176264, AI498051, AA419262, AA932846, AA632390, AA504894, AI564499, AI128977, AA737814, AA419313, AA565758, N26317, AW291428, AA533063, AI375164, AA662704, AA935484, AA128486, AI266104, N32937, N42608, AA307525, AI272853, AI354318, AA565783, N35109, AA191421, AI091816, W24942, N62754, AA113164, AI139914, R35445, AI358925, AI524297, AA411740, AW169734, AA342234, AA864231, AI219732, R75982, AA506884, AA868134, N95815, AA952966, AA406562, AA422127, AI277114, AA568586, AI307129, AA552501, AA325046, R80092, AA296682, AA075972, AI660916, AA877488, T48678, R25740, T78250, AL079578, AA504946, AA923223, R76813, R27494, AA348004, AA694309, AI538662, H04698, AA337541, AA356674, T48679, AA738377, AA368983, AA074378, AA809882, AA588403, AI672899, T78083, N79702, R25658, AI202481, AA311735, AA112425, R27510, R32527, R28609, AA129797, R25647, AI364021, AA578870, AI864211, AL079579, AA665375, R79989, AA355436, R34256, AA368982, AA348005, AA327401, N43853, AA937676, AA876470, AA235504, AW166979, AA548792, AA337180, AI520916, AI684053, AA054425, AI866770, AA878790, AI890907, AI348854, AI608932, AW001426, AI358701, AI680498, AI554343, AI620639, AL038445, AI961589, AI758437, AA911767, AI611348, AW022682, AW131288, AA603709, AI288285, AI344935, AI310575, AL037582, AL037602, AI340533, AL042191, AI349645, AW268253, AI702301, AI345253, AW083175, AI349937, AI621209, AI345026, AI559531, AI554485, AW150804, AI340627, AI963846, AW303089, AI859429, AI335235, AA908294, AW105601, AI497733,</p>
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	AI307569, AI340511, AI263331, AL036980, AI559632, AI334930, AW004896, AL036904, AI345739, AI340659, AI343091, AI251221, AW074869, AI932638, AI247193, AI690813, AI634224, AW268072, AI335208, AW089275, AW302992, AA983883, AI872423, AI500588, AW169604, AW079336, AW026882, AI815232, AI310582, AW074993, AW129106, AI445131, AI335426, AI349957, AI348777, AW301300, AL041150, AW075207, AI312152, AI343037, AI310940, AI470293, AI889148, AW152469, AI690411, AI349226, AI345005, AI348879, AW075084, AI886206, AW058233, AI349614, AI343112, AW193134, AI307543, AI307210, AI312156, AI307708, AI349598, AW302988, AI859733, AI349256, AW167222, AI313320, AI345735, AI801460, AI620284, AW023338, AI432969, AW072588, AI307520, AW088805, AI249323, AI869367, AI334884, AW071412, AI207454, AI312325, AI343140, AI349971, AW089689, AW081797, AI783504, U49908, M30514, E02349, I48978, AL117435, X84990, AF118070, AF113699, AL049464, AL050277, X83508, AL049314, I89947, A08916, I03321, A08913, AJ238278, A08910, A08909, AF090943, AR029490, X63574, I89931, A08908, AL137521, AL133568, I49625, AL050393, AJ012755, AR038854, AF028823, AL133557, U49434, AR011880, AR038969, AL133016, A08912, I48979, X96540, AF113694, AF113690, AL080127, AL023657, AF158248, AI8777, AF079763, AL117457, E02221, X53587, AF090896, AF118094, AL049382, AF106862, AF113677, A90832, AL137550, AL117432, AL110222, AL137292, E04233, U58996, AB007812, AF017437, AF100931, AF118090, I42402, AF026124, AL050116, AL050092, U35846, AF008439, AL050172, Y10080, AL110197, AF111849, AL117649,

				AF090900, AF125949, S78214, AF061943, I26207, X82434, U67958, AL117416, E08631, U78525, AF104032, S75997, AF091084, AL049452, X70685, AL117583, A03736, AF113019, AF090934, AR034830, I96214, AF215669, AL137478, AL110196, AL110280, A07647, AL137558, AL050138, AL133072, AL137480, U91329, A08911, AL049300, AL049466, AF183393, AL133081, Z37987, AF162270, U00763, AL137429, I09360, AL050024, AL080124, AL133098, AL117460, AL117585, AL096744, AF026816, U42766, AL080154, AJ242859, X52128, AL049465, AL080158, I00734, Y07905, E12747, X72889, AL133560, A58524, AL080074, A58523, AL122110, AF003737, AF100781, AL137526, AL137523, AF097996, AF051325, E06743, AF132676, AF061836, AL110225, M86826, AL133665, Y09972, AL050108, AL137488, AF106657, AL133113, AF113013, AL080234, AL133565, AF061573, AL137463, I89934, I89944, AL080086, AF078844, Y10655, AR020905, AL122093, Y11254, AL133080, A77033, A77035, AF087943, AL133640, AL137271, Z72491, AF111851, AL110221, AF090903, AF125948, AF113676, I66342, AL137533, A08915, E15569, AF185576, U80742, AL117394, AL050155, S79832, AF022363, AL122121, AF032666, D83032, AF119337, AR013797, I80064, AL122049, Y16645, AF067728, A65341, AL049283, AJ000937, AL049430, I33392, AL137560, Z82022, AF153205, A93350, I09499, L31396, U68387, AL133077, AF177401, S68736, AL137705, AF090901, AF139986, X65873, AF079765, L31397, AF081195, AL137476, AL122123, E08263, E08264, E07361, A93016, S61953, A21103, AL137459, X00861, AF126247, AF118064, AL133558, X87582, AL122050, AL137529, AF061795, AF151685, A12297, AF057300, AF057299, AL110171, AL080060, A08907, AF113689, AF017152, AL133075, AR068751
1491	HERAM35	876474	Preferably excluded from the	

			present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 515 of SEQ ID NO:1491, b is an integer of 15 to 529, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1491, and where b is greater than or equal to a + 14.		AA604375, AI096476, AI627324, AI623783, AW270881, AW176260, AA420479, AW263721, AI433858, AI888162, AW001768, AW190261, AW300137, AW166776, AI017162, AI034411, AW169112, AI493585, AA035308, AI400980, AI269743, AI086151, N20484, AA905363, AI244728, AW148617, AA126992, AW370989, AA490959, AW339199, N34406, AW391594, AA480346, AA970535, AA548169, N24599, C02570, AW380443, AA582926, H42703, AW105105, AA570014, AW026638, AA256814, AA364778, AW020880, Z41211, AI536061, AA035307, AA420478, H24299, AA678544, AW391563, AW339527, AA065097, AA613111, AI925770, AW391562, AA191512, D51223, D62210, AA847993, AA652779, AI750126, N75648, AI436629, N51447, AA743305, AL117597
1492	HFIUG54	876475	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1211 of SEQ ID NO:1492, b is an integer of 15 to 1225, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1492, and where b is greater than or equal to a + 14.		AI693062, AI936680, AI638780, AW130947, AI203659, AA969048, AA730307, D61225, AL041011, R49279, H64578, AA249856, AA120957, H64682, D81623, AL040722, N56191, AW265781, AA082593, AF029343
1493	HE8CX56	876476	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2284 of SEQ ID NO:1493, b is an integer of 15 to 2298, where both a and b correspond to the positions of		

1494	H2LAQ54	876480	<p>nucleotide residues shown in SEQ ID NO:1493, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 375 of SEQ ID NO:1494, b is an integer of 15 to 389, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1494, and where b is greater than or equal to a + 14.</p>	<p>AW068683, AA3114376, D80193, D80227, D59619, D80210, D80240, D59467, D80195, C14389, D59502, D80164, D59275, D80038, D80219, D80269, D58283, D51423, C14331, D59859, D80022, D80166, D51799, D80391, D80253, D81030, D50979, D80043, D59787, C15076, D80378, D80212, D80196, D80188, D59927, D59610, D57483, D80366, D50995, D59889, D80024, AA305409, T03269, D80241, D80045, AW178893, C75259, AW178775, C14014, AA305578, AW179328, AW177440, D51022, AW352158, AW378532, D80522, D80134, D51250, D52291, AA514188, D81026, AW178762, AW177501, F13647, AW177511, AW352117, D80251, D80168, D80248, D58253, C14298, Z21582, C14227, AW360811, D81111, AW377671, AA514186, D80133, AW378540, D80064, AW375405, C14407, AW366296, D80132, AW360817, AW375406, D80268, AW378534, AW352171, AW179332, AW377672, AW179023, AW377676, AW178905, D51097, AW178754, AW179024, AW179020, AA285331, AW177456, D80302, AW178906, AW352170, AW177731, AW360834, AW178907, AW179019, AW179018, AW352174, D80439, D80247, AW378528, AW178908, AA102166, C14077, T11417, AI557751, AW178914, AW178781, AW378543, AW378525, D51103, AW178774, AW352163, T03116, D80157, AW378539, D80258, D59503, D58246, D80014, T48593, D59627, C06015, D58101, AW378533, AI557774, D45260, AW367950, AW178986, AI525923, H67866, D51213, D45273, T02974, AA809122, C03092, H67854, D80228, T03048, AW179013, D59317, AI525917, AI535686, C14344, C14973, D51221, AI525920, D59474, D59551, AA514184, AI525227, H67858, Z30160, AI535961, AW378542, U70370, AF009649, U54499, U71206,</p>
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1495	HWABG32	876481	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1386 of SEQ ID NO:1495, b is an integer of 15 to 1400, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1495, and where b is greater than or equal to a + 14.</p>	<p>A84916, AJ132110, A62300, A62298, AR018138, Y17188, X67155, D26022, A25909, A67220, D89785, A78862, D34614, D88547, AF058696, AR008278, X82626, AB028859, AR025207, Y12724, AB012117, A82595, AR066482, A94995, X68127, AR060385, AB002449, AR008443, A85396, A44171, U87250, A85477, I19525, A86792, I50126, I50132, I50128, I50133, X93549, AR066488, AR016514, AR060138, A45456, A26615, AR052274, Y09669, AF009648, A43192, A43190, AR038669, I18367, AR066487, A30438, D88507, I14842, AR054175, D50010, Y17187, A63261, AF135125, AR008408, I79511, AR062872, A70867, AR008277, AR008281, AR016691, AR016690, U46128, D13509, A64136, A68321, AR060133, AB033111, AR064240</p>
1496	HMTBE05	876483	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AA873178, AW340076, AA453258, AA453359, AI200335, AI189856, AI127354, T57079, AA031327, AI096450, AA948375, AA031328, AA977624, AA994405, AI148795, AI340956, AW014990, AI652909, AI160243, AW026239, AI093526, AA923811, AI091630, AI365268, AW380222, AI367151, N32402, AA583097, N56822, AA579988, AI343747, H12681, AI825678, AW197534, T29148, F08275, AI468467, T95661, T82166, T57151, AI880292, T81821, F04505, AA481266, R41605, AW372903, AA662708, AW130992, AI818777, AA764938, X14356, L03418, X14355, L03419, M91645, M91646, M91647, M82819, L03420, M63835, M91555, M91554, M63834, S45709, M91552, S45707, M63832, M63833, M91553, M91550, M63830, S45704, S79667, A37858, AL133558, AF070643, AJ001388, AL109725</p>
1496	HMTBE05	876483	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AI026945, AI808573, AI620239, AA948677, N53940, AW249558, AI096948, AA159915, AI095014, AI871045, AI950931, AA455901, AW009419, AI149374, AA024477, AI433743, AA428948,</p>

1497	HKABL05	876484	<p>the general formula of a-b, where a is any integer between 1 to 1470 of SEQ ID NO:1496, b is an integer of 15 to 1484, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1496, and where b is greater than or equal to a + 14.</p>	AA039950, AA165025, AI884373, AI149074, AI184801, AI188603, AI937231, AA024476, AI459664, W26293, AA831823, AI766893, AA830218, AA476574, AA040001, AW404545, AA455902, AA027936, AI566799, AA582203, R15907, AA422121, AI879131, T34650, Z43817, AA738453, AI220916, N59030, AI419568, AI300117, AA738075, AI967928, Z39886, AW071642, AA863299, AA877869, AI382238, AI149361, AW169605, AA483840, AI436690, AA448896, AI800263, AI831898, AI262999, AI984945, AI915652, AI701265, AI344209, M79093, AI829004, AA028041, AW408623, AI982982, AI202924, AW246104, T66533
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2178 of SEQ ID NO:1497, b is an integer of 15 to 2192, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1497, and where b is greater than or equal to a + 14.</p>	AI740522, AI309318, AI376662, AI741390, AI742840, AA679083, AI765150, AW002945, AW192895, AA001262, AI052703, AA648295, AI929375, AW157334, AI799150, AA577690, AA909347, AA608744, AI879998, AI421323, W55919, AW373539, W84527, AA947742, AA861283, AA065133, AW168112, AA460061, AI300565, AW204198, AA155821, AW104051, AI800773, AI193965, AA101195, AI582368, AW057835, AI348116, AA527861, AW009823, AW029295, AW022530, AA708118, AW238854, AI452699, AI016610, AA669337, AA480279, AA278360, AI749692, AI160871, AW130090, AA744919, AA760760, AW007135, AI275625, AI057288, AI494111, AA831711, AA687284, AI815697, AI374689, AA155925, AI862854, W55920, AI367891, W04222, AW272692, AA628638, AA707011, AI800064, AA043251, AA160009, N62094, AI671739, AA292750, AI052618, AW166814, AA152365, AI475145, N78325, AA001852, AI952464, AI953334, AI346774, AI243902, AI271553, AI637742, AA514862, AA025382, AA484277, AI288842, AI311020, N50975, AW027908, AA132226, AI436690, AI130684, N74257,

	AI198852, AI354226, AI969402, AI026752, AA453035, AA668696, AI090673, AA971631, AA984913, AW264660, AI798057, N93127, AL120009, AA628641, AA281226, AA922510, AW163390, AA161457, AA187227, AA764824, AI521457, AW439109, AA088421, AA722831, N23855, AA807549, AA043590, W67807, AA026016, AA494441, AA179097, AA565588, AA065202, AA928577, AA633795, W15314, AI886794, W84515, AI797422, AA120907, AA046354, AA788597, AA083453, AA765379, AA009957, AI190992, AA284411, AA857371, AA459969, AA741542, AA001988, AI206746, AA160010, AA586336, AW235920, AA010759, AW075660, AA131616, AA046070, AA247207, AA002267, AW020230, AI123351, AA281235, AA426610, AA780786, AI825394, AA083357, W73815, AI439077, AI434359, AI695507, AI344209, W69764, W60465, AI281441, AA568376, T63795, W38654, AA028052, AI826611, AI800263, AW270667, AI370333, AW117628, W52413, AA127865, AW439098, T64108, AA164988, AA211263, AA278324, AA327661, C15972, W78007, AA011120, T47065, T34888, AA204925, AI758966, N66464, AA491375, AA292539, AA127890, AA845300, AA092473, D54180, AA827429, AI984945, AI074775, AW341620, AW438482, N99121, AA054675, AA226936, T94385, AA126323, AA227046, AI559910, AA574112, AI290025, AA355027, AA460014, AW050391, AA926777, AA373413, AA356295, AA621388, AW009092, AA301008, AA482700, T64028, AA332547, T35591, AA205052, T63820, AA738461, AI000546, N33952, T57017, AI887555, AA365643, AA147057, AA428948, AA448896, AA211143, T51962, R15907, AA131382, AA142894, T30133, AB030905, AC005841, Z84488, U26312, U95740, AF063304, AB005618, X56683, A75245, AL023775, D28877, U09120, AF086270, T47064, T52042, R36239,

1498	HOCTA74	876487	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 671 of SEQ ID NO:1498, b is an integer of 15 to 685, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1498, and where b is greater than or equal to a + 14.</p>	<p>N38911, N46485, N58965, W39742, AA028051, AA128181, AA132330, AA147058, AA152387, AA186506, AA278995, AA278348, AA525751, AA525773, AA525871, AA661828, N56031, C00146, AA091857, AA095676, AA170857, AA398724, AA665715, Z19940, AA732979, Z18797, AA991829, AI001836, Z39146, AI341188, AI566368, AI652212</p> <p>AI302800, AW118693, AI808667, AI065036, AW080952, AA862461, AI201847, AI138543, AI015998, AA865819, AA470462, AA454546, AI221895, AA481881, AI039771, AA535254, AA482063, AI301489, AA551867, AI018725, AL121442, AI244932, T88913, AI914566, AI017732, AI016693, AI833052, AA608575, AA120921, AA120922, N57711, AW151576, AI572464, AW303732, AI471156, R85699, H60433, AA890675, AI262997, AA620388, T47276, AA534566, AI625454, AA852619, AA889211, AA707578, AI718799, T47275, AI124998, AA477467, H88225, AA680222, H66348, N63309, AA131070, AA131015, AI474581, AI561334, AW392670, Z99396, AW372827, AW384394, AW363220, AL119497, AL134528, AL119443, U46341, AL119457, AL119319, AL119363, AL119341, AL119496, AL119324, AL119355, AL119483, AL119484, AL119391, AL042965, AL119335, U46350, AL134920, AL119522, AL119396, U46351, U46349, AL119418, U46347, AL119444, U46346, AL037205, AL134902, AL042614, AL119439, AL042975, AL119399, AL042551, AL119401, AL134518, AL134524, AL043029, AI142132, U46345, AL042984, AL134531, AL134538, AL134525, AL042450, AL043019, AL134536, AL037051, AL036725, AL042970, AL119488, AL042544, AL042542, AL043003, AL119464, S79219, X14608, M22631, M26121, AL122056, A81671, AR066494, AR060234, AR054110, AB026436, AR069079</p>
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1499	HWLUU48	876490	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1035 of SEQ ID NO:1499, b is an integer of 15 to 1049, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1499, and where b is greater than or equal to a + 14.</p>	<p>AA099027, AI887335, AI887905, AI694672, AI566740, AW086500, AI222690, AI686357, AW085264, AI590636, AA411391, AI431702, AI383310, AA436251, AI913708, AI015064, AA453266, AC004190, AP000516, AB014087, AL020989, AC007100</p>
1500	HULAJ15	876491	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1004 of SEQ ID NO:1500, b is an integer of 15 to 1018, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1500, and where b is greater than or equal to a + 14.</p>	<p>AI991884, AI872008, AI660228, AW167205, AW084525, AA601542, AI859727, AI818462, AW080935, AI687318, AA552217, AA621566, AA886903, AA706568, AI379184, AW000876, AI569542, AI860861, AI887280, AI653757, AA461121, AI554798, AI016349, AA622753, AI332503, AI246460, AI332793, AI144192, AA460819, AA563883, AA455216, AA621675, AA862530, AA858222, AA581826, AI806046, N35715, AW328329, AI262551, AI204029, AI149450, AW071084, AI289219, AA609900, AA927266, AI707484, AI095745, AA618130, AI721109, AA931503, AI440027, AI275080, AI299248, AI276688, AI750085, AA088417, AA304654, AI262552, AI688181, AI282807, AW294666, AI335810, AI748980, AI335786, AA088540, AA420995, AI355863, AA102237, AA070673, AA595597, AI750051, AI749025, AI811127, AI086655, AI278320, AA443973, AI080248, AI367574, AA421075, AA052939, AI418137, AA902863, AI265947, AA931116, AA430411, AA251968, AI355088, AI290353, AW305028, AI005354, AI367787, AA913300, AA053492, AW008828, AI355089, AI890124, AA564009,</p>

			AI359453, AI282383, W45582, W52209, AA102236, T67787, AI368584, AI382940, AA846519, AI095153, AA578680, AA838282, AA879315, AA305607, AA430359, AI095598, AI708067, AI383117, T67711, AI720469, AA879062, AA186928, AA494466, AI832504, H79930, AA417983, W45545, AA469124, AA526593, AI719480, AI832612, AA420865, AI041840, AA305069, AI244411, AW088865, AI264706, AA242885, N35628, AA858264, H62987, AI460162, AA865264, AA418153, AI435908, AA353482, AA740793, AI310701, AI143647, AA320588, AI541426, AI581554, AA420466, AI472533, AA188357, AI888688, AA373467, AA630328, T61575, AA330716, AI460166, AI381692, R44192, AA444156, H62866, H96297, AI131189, T29504, AA193634, AI217206, AA102029, AA136055, AW028629, AA853950, AA294960, AA330845, AI582088, W79666, AA377021, W74128, AA370626, AA876408, AI000545, AI749041, R02407, AA102028, AA126713, R23407, U46351, AA193598, AI581181, AW082579, T61023, H96296, W24691, AI431603, T82007, AI123178, R02308, AA216169, AA469193, N26519, AA576977, AI858582, N93058, AI361535, H79833, R63786, H57907, AB006780, M36682, M35368, M57710, AR036975, S59012, L23429, X78879, U06470, X16834, J02962, J03723, X16074, AR036976, L08649, AF031422, AF031425, M33215, AF031424, AF031423, AL133655, AL121593, U89295, A59344, M27260, AL122093, AL117599, AL133015 AA773574, AI870173, AI090858, AA599163, AA205487, AL134981, AA308686, AW247784, AW377280, AA581816, AI435156, AA599212, AA164748, AI499069, AW148604, AA181056, AI828823, AA160573, AA894927, AA446427, AA308175, AA314621, AA812415, AW377338, AA307680, AW377313, AA315193, AA514946,
1501	HSYAJ64	876494	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2017 of SEQ ID NO:1501, b is an integer of

	15 to 2031, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1501, and where b is greater than or equal to a + 14.	AA948141, AA652118, AI090292, AA435521, AI342258, AI240388, AA205318, AA243054, AA768432, AI082283, AA024693, AA456625, AI911813, AI363735, AA446119, AA652124, AA424926, AI263712, AA024647, AA205575, AI004571, AA630601, AA307175, AA164747, AI042562, AI934643, AI341665, AA313490, N75485, AA207213, W91894, AA426166, AA307366, AI433060, AA307046, AA195483, AA252561, AA527990, AA989506, AA223574, AI270387, AA243053, AA455806, AA307677, AA403863, AA315014, AA159366, AA157555, AA158206, AI568188, AI028221, AI445024, AA927196, AA307925, AA649534, T28878, AI085919, AW392054, AA776680, AI672839, AA312108, AA376260, AW392206, AA654257, AI865398, AA347324, AA626750, AA219493, AI630717, AA307419, AA662020, AI510831, AA442877, AA350306, AA362375, AI935046, AA152328, AI305172, W05296, AI278536, AI308922, AA053461, AA053213, AA135056, AA186979, AW173202, AW377352, AA206750, AA608732, AI025236, AI719108, AA325720, AI922470, AA223615, AA152329, AA626448, AA649822, AA300684, AA362586, AA626522, AW377293, AA315660, R14052, AA333552, R37150, R15974, AI569355, AA190772, AA362376, AA593069, AA921347, AA316929, AA180011, AA134971, W95113, AA978212, AI932667, AA040890, AA830424, AW383641, AI632334, AA947203, AA326527, AA629781, AW383640, AA954366, R05778, C21408, R05864, AW392327, AA191382, AA322735, H55311, AW383658, R15975, AW410508, AA995270, AA160528, AA219455, AI703040, AW104153, M27396, M15798, M27838, X52130, U07201, U07202, U38940, AC005326, L35946, M27054, L35936, L35937, L35938, L35945, L35940, L35941, L35942, L35939,

1502	HETIF19	876495	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1449 of SEQ ID NO:1502, b is an integer of 15 to 1463, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1502, and where b is greater than or equal to a + 14.</p>	<p>L35943, L35944, L35935, T66600, T66601 AA926696, H16874, AW376009, AA313468, R23401, N35321, R13283, AW152493, AI027550, T11328, AR036119, X92689, U70538</p>
1503	HLVEA23	876496	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 556 of SEQ ID NO:1503, b is an integer of 15 to 570, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1503, and where b is greater than or equal to a + 14.</p>	<p>AW161801, N56973, N73756, AA479038, D44982, N81193, W65438, H25021, N22293, N47355, AA973373, AA477521, AA595499, AA838190, AW172858, AI887235, AL134275, T59612, AW169038, AA847980, AI002744, H02058, AI590442, AB014528, AC005062, AL135783, AL117258, AL133163, AL137100, AC004859, AL035410, AC004067, AC002349, AC005725, AF205588, AC008033, AC004887, AL049589, AC002412, AF130249, AC005261, AC007488, AL033533, AC005722, AC007011, AC006547, AC006080, Z98304, Z84469, AC005664, AF031078, AF030876, AF031076, Z95152, AC004019, AC005280, Z69907, AC006213, AC007238, AL049569, Z93016, AP000344, AL031597, AC004605, Z82203</p>
1504	HAPQU61	876498	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 484 of SEQ ID NO:1504, b is an integer of 15 to 498, where both a and b</p>	<p>AI949815, AI813450, AI819294, AI269353, AA421819, AI089074, AA834705, AA847960, AI559836, D31784</p>

1505	HE8OT93	876499	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:1504, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2047 of SEQ ID NO:1505, b is an integer of 15 to 2061, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1505, and where b is greater than or equal to a + 14.</p>	<p>AA486504, AA133234, AI339710, AA743093, AI688621, AI096844, AA129712, AI860744, AI420708, AI278953, AI278568, AW006666, AI571986, N68247, AI358873, AA314945, AA341071, AI346152, AI219397, AA488692, AA148150, AI362046, AW050985, AI090396, R60368, AA626449, AW272569, AA308535, AI471517, AW135592, AW205875, R60312, AI590397, AI078709, N39886, AA557504, AA970783, AI419556, AA338145, AA534362, AA351801, N26928, AA143763, AA557513, H87951, N57132, AW051845, AW394065, H95626, AA309736, AW204673, AI457186, AA376417, AA570135, AI805191, AA376416, AA310109, N68052, H95981, AI049818, Z21567, AA079141, AW389275, AL049742, D86997, D88269.</p>
1506	H2LAB08	876503	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2382 of SEQ ID NO:1506, b is an integer of 15 to 2396, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1506, and where b is greater than or equal to a + 14.</p>	<p>AI911983, AI927427, AI889004, AI693602, AL045565, AI767631, AI150323, AA576743, AI201732, AA811424, AA436321, AI890062, AA812674, AI348111, AA776471, AA904047, AI909133, AA262396, AI909125, AA827237, AW084600, AI890814, AA778086, AI708713, AA436197, AI580236, AA313219, AI926738, AA550977, AI819536, AA688044, AA252436, AA307642, AI569986, AI174417, AA251902, D19596, AI687789, AW029076, AA305817, H93729, AI000199, AA232315, AI346715, AW275185, AI273086, AA689252, H02731, H04075, H88463, AI678322, AA541528, AI474632, AA651878, AA307939, AA378903, AI934157, AA243609, AI267661, AA525290, AI824311, R37260, R59445, AA378902, D61809, AA361618, R12332, AI341322, R23315, R70591, R59386, AA336382, AA831575, R75944,</p>

				H00410, AA354320, AA602417, AI567956, D79295, N87729, H03382, H01205, R31246, H00817, R39541, R92975, AL045564, D58065, AA730991, C16596, C16509, AA580841, AA383636, AA296630, D62972, D82320, AW073685, AI364834, AA598715, AI355779, AI289791, AI539800, AI500714, AI355008, AI866469, AI434242, AI539771, AI889189, AI815232, AI537677, AI371243, AI582932, AI582912, AI927233, AI433157, AI612913, AI491710, AI366900, AI804505, AI610362, AI434223, AL039390, AI440239, AI863197, AI924051, AI366910, AI539847, AI521596, AW074057, AI932620, AL040207, AI590043, AL042944, AI567935, AI539260, AI866465, AI801325, AI500523, AI538850, AI887775, AI537187, AI923989, AI284517, AI872423, AI500706, AI445237, AI491776, AW151138, AI521560, AI500662, AI284509, AW172723, AI440263, AI538885, AI889168, AI866573, AI633493, AI434256, AI805769, AI888661, AI284513, AI888118, AI285439, AI859991, AI436429, AI889147, AI623736, AI581033, AI371228, AI440252, AI431307, AI440238, AI567971, AI866786, AI860003, AI610557, AI431316, AI242736, AI828574, AI887499, AI537273, AI539781, AI539707, AI702065, AI885949, AI285419, AW089557, AI559957, AI521571, AI469775, AI866581, AI567953, AI815150, AI446495, AI867068, AI225248, AI610426, AI567940, AI282264, AI926593, AF035293, AF081281, AF052112, AF077198, AF077199, D63885, AC004062, U97146, AR028701, U97147, U97148, U89352, AC004548, AL133074, Y17793, AL133076
1507	HISBB72	876504	Preferably excluded from the present invention are one or more	

1508	HCHBN47	876507	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1139 of SEQ ID NO:1507, b is an integer of 15 to 1153, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1507, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 638 of SEQ ID NO:1508, b is an integer of 15 to 652, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1508, and where b is greater than or equal to a + 14.</p>	<p>AI288864, AA933871, AW379374, R55964, AA741334, AI422503, AI884993, AI422504, R55965, AA515979, U41901, AR030574, AR030579, AR030578, AR030581, AR030575, AR030577, AR030580, AR030582, AR030589, Z94719, Z94720, Y08171, Z94718, AR030590, AR030583, AR030587, AR030584, AR030585, AR030588, AR030586, AR030591, AR030592</p> <p>AP000066</p>
1509	HFADJ29	876511	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1216 of SEQ ID NO:1509, b is an integer of 15 to 1230, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1509, and where b is greater than or equal to a + 14.</p>	<p>AI114564, AI064937, AI207577, AW024388, AA167328, AI357366, AI826158, AI656065, AA890501, AA314294, N72119, AI368841, N25212, AI796295, AI215697, N48787, AI066435, AA171687, AA043292, AI270341, AI191607, AI632032, AI873864, AA508855, AI828826, AA996333, AW192143, AI298715, AI872218, AI687959, AI753230, AI926791, AI436234, R74567, AA828059, AA640994, AI801845, AA644673, AA492531, AI219265, AA043291, R76364, AI695300, H03697, AI628314, AI302487, AA147569, R62982, AA312605, H00964, AA305334, AA156441, AA370497, AA333089, R97205, AA657712, R63037, R76689, AA769559, AA761876, AA167149, H64689, H65183, H00965,</p>

1510	HWLQP42	876513	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 999 of SEQ ID NO:1510, b is an integer of 15 to 1013, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1510, and where b is greater than or equal to a + 14.</p>	<p>C03639, AA361522, AA370109, AW131681, T48460, AA807111, W38740, AA548193, AA350472, AA350471, T39360, AA171802, N45578, AA330808, AW379530</p> <p>AA196276, AA524473, AL040260, AA533568, AA600703, AA773551, AA292150, AA004500, AI928071, AI612760, AA411191, AW264086, AW206769, AA496356, AA434061, W42808, AA232555, AA292045, AI085934, AA182481, AA292071, AI087140, AA004501, AA496406, AA434125, AW317087, AI752948, AA443125, AA456190, AA400594, AA292028, AI682335, R73572, AA766115, AA292042, H61296, H61291, AL043495, AA044201, R11520, AA705241, AA652065, AA043939, AI536587, R97731, AI352191, AI630315, AA350112, D31167, AA031359, T85323, AA429498, H15771, R44134, AI351143, AW138388, AA661960, AI215409, AA411071, AW243696, R72952, AW068860, AI567210, AI393957, AI970891, AI273925, AA321611, AA401967, AI224608, AI084609, AI279699, AA031603, AI915877, AA400679, AI092030, AA031637, AI630462, AA429499, AA031476, AA301177, H15770, AW381505, AA182758, AW381475, R10445, AW381498, AI992085, AA312507</p> <p>AA305114, AL022398</p>
1511	HDPAG07	876518	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 442 of SEQ ID NO:1511, b is an integer of 15 to 456, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1511, and where b is greater than or equal to a + 14.</p>	
1512	HLTAR39	876524	<p>Preferably excluded from the</p>	<p>AI133655, T96748, AW369762, AA350015, AA360756,</p>

			<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2153 of SEQ ID NO:1512, b is an integer of 15 to 2167, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1512, and where b is greater than or equal to a + 14.</p>	<p>AW386072, AI625829, AA534216, AW243183, AW367779, AI697340, AI754731, AW367807, AC004707, AC004675, AF088219, AC006026</p>
1513	HWLRF38	876526	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 818 of SEQ ID NO:1513, b is an integer of 15 to 832, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1513, and where b is greater than or equal to a + 14.</p>	<p>AW183028, N28485, AI306451, AI536589, AW072566, N24976, H82376, AI814709, AI376566, AI352453, AI590303, AI280262, AI761747, AA554283, AI222990, AA644328, AA661978, AA587549, AA045302, AW274520, AW043629, AA630727, AW273650, AI368900, AI381943, AI290422, AI167243, AA993296, AA977315, AW337456, AA029935, AA779545, Z17865, AI493253, AI624318, AA908755, AI168437, AA757538, AA977243, AI740891, AA524068, AA628420, AI123070, AI692442, AI868044, AA687907, AI370323, T31450, AI867272, N46853, N67292, AW276010, N69329, AI768256, AI022628, R83171, AW073539, AA180796, AI761569, AA045408, AW134931, AW085513, AW059629, D11973, AL133563, AJ006412, AB018284, AJ006776</p>
1514	HCRNM09	876530	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1350 of SEQ ID NO:1514, b is an integer of 15 to 1364, where both a and b correspond to the positions of</p>	<p>AW362945, AI916280, AA632418, AW451840, AA579245, R85405, AW3666782</p>

1515	HOB AE30	876533	<p>nucleotide residues shown in SEQ ID NO:1514, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1479 of SEQ ID NO:1515, b is an integer of 15 to 1493, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1515, and where b is greater than or equal to a + 14.</p>	AA947739, AI400455, AI079804, AW270919, AI435830, AI452944, AA747433, AI570117, AW207124, AI580309, N95645, AI309204, AI338445, AI272895, AI499408, AW079078, AI797006, AI917984, N98806, AA282725, H01411, H00875, AI565322, AI240334, H01410, R74104, AA831514, R61345, AW150637, AA301342, N69359, R74103, AI672118, H00874, H78279, AA514041, T49557, H79404, AI739220, R31153, AI864092, AA344229, AA693339, T49556, R31104, AA085178, N83511, AI373773, AI349772, AW104724, AL119748, AW071349, AL121365, AI633419, AI537677, AI475371, AL119049, AI536638, AL040243, AW198090, AW087445, AL121270, AL045500, AI433976, AI871697, AI433157, AI536685, AI609331, AI612913, AI568855, AI269205, AI682743, AI682106, AI866457, AL121328, AI815855, AI538716, AL036802, AI580927, AI440239, AI436456, AI590415, AL047763, AI499463, AI207510, AI275175, AI064830, AL045903, AI687728, AI802542, AI500523, AI815383, AI621209, AL119791, AI539771, AI500659, AI524671, AI863014, AW117882, AI684265, AI620284, AI469532, AI906328, AL036146, AI580190, AW071417, AI818683, AI284484, AW274192, AL036396, AI521012, AI702406, AA470491, AW301409, AL036361, AW080838, AW169671, AI920968, AI637584, AI439717, AI349256, AI499393, AI491852, AI934035, AI907070, AL043981, AI648684, AW074993, AL036274, AI149592, AI539153, AI564719, AI439745, AI872711, AI568870, AI613017, AL135661, AL047042, AI690835,
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	AW129659, AI250293, AI432969, AI445025, AI868831, AW166645, AI500077, AI349645, AI446628, AL049085, AI538829, AW151485, AW303152, AL045266, AL043326, AI567351, AI345111, AW238730, AI619502, AW268253, AI349598, AL044207, AW026882, AL040169, AW150578, AI343112, AI349933, AI491776, AI285735, AI783504, AI690426, AI631107, AL079963, AI866608, AL121014, AI857296, AI499512, AI349004, AI281762, AI590227, AI873731, AL038778, AW088793, AI440426, AI580984, AI269862, AL119828, AI439762, AI570909, AI673710, AI815232, AI340582, AI682841, AW103371, AI635461, AW149869, AI625079, AI274541, AI610756, AW008048, AL043975, AW089572, AI348897, AI922901, AI636456, AI538259, AI312152, AI282903, AI349937, AW162071, AW129202, AW169132, AI281773, AI284020, AI678302, AL048871, AI634737, AW090013, AI249257, AI636445, AW118512, AW131954, AW196141, AI612920, AI554484, AI811344, AI912866, AI570384, AW002342, AI569616, AI475451, AI702433, AI224992, AI799199, AI271786, AI273142, AI432656, AA508692, AW068845, AI269696, AI590128, AI934036, AW302965, AI800453, AI800433, AI560099, AW132121, AI284517, AA613907, AI498579, AI445165, AL117613, AF147302, AF090900, I48979, AF113694, AL080124, AL133640, I89947, Y11587, AF090934, S78214, AF113691, AL133606, AF090903, AL117460, AL049938, L31396, AL122093, L31397, AF104032, AL133016, AL050138, AF078844, AL050146, U42766, AF106862, AL117457, S68736, AF090901, AF113019, AL050393, AL122050, I89931, AL133075, AF017437, AL050149, AF113690, AF113677, AF118070.

1516	HATCV09	876534	<p>AF090943, AL137459, AF113013, AL110196, AF118064, AF113676, AJ242859, AL050277, X84990, AF125949, AF090896, A93016, AL110221, AL080060, E03348, A08913, AF017152, AL050108, A08916, AF113689, Y16645, AL049452, AR059958, AL096744, AL022147, AL133557, AL137557, AL050116, AL137527, AL133565, AL049314, AL122123, AL133080, AL049466, AB019565, AL080137, E07361, AF158248, AL133093, AF111851, I48978, AL122121, AC007390, AF177401, AJ000937, AF125948, AF113699, AF091512, Y11254, AL117435, AF091084, AL137283, AC002464, AC004883, U62317, X63574, AL035587, AC004686, U91329, AF146568, AR011880, AL137550, X82434, AF097996, AF079765, AC007298, AL133560, AL110280, AL117394, AL049430, AL110225, AJ012755, AC004383, A65341, AL078602, Z98036, I49625, AC005291, AC006115, AL133113, I66342, AF042090, AC006501, U95739, AL049382, AJ238278, E07108, AC007458, AC002538, AC004200, AL137294, E02349, AL117585, A77033, A77035, AL049300, AC006371, AC005829, Z82206, AL137271, AL117583, U00763, A58524, A58523, AL133014, AC004987, A08910, I33392, AL122098, AL049464, A08912, AC002467, AF183393, AL2297, X70685, AL031732, AC010077, AL122110</p>
			<p>AI650305, AI949332, AI206515, AI188549, AW169558, AA857218, AI433853, AW204540, R68303, R42247, AA994295, AI580329, AI624558, AA602338, R44174, Z40075, AI015727, N34408, R74002, R68268, R53421, R54010, Z38312, R44219, R49558, AA090402, F01959, AA090979, U72788, AI304833</p>
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2095 of SEQ ID NO:1516, b is an integer of 15 to 2109, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1516, and where b is greater</p>

1517	HCRNE16	876535	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 576 of SEQ ID NO:1517, b is an integer of 15 to 590, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1517, and where b is greater than or equal to $a + 14$.</p>	<p>AI274758, C06072, AI589250, AI470584, AA227219, AW021868, AA747122, T27280, AC007501, U80736</p>
1518	HCRPV63	876536	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 411 of SEQ ID NO:1518, b is an integer of 15 to 425, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1518, and where b is greater than or equal to $a + 14$.</p>	<p>AI143683, AI924826, AA086365, AI792153, Z79581, Z79582, S81107</p>
1519	HSKKP02	876538	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 1172 of SEQ ID NO:1519, b is an integer of 15 to 1186, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1519, and where b is greater</p>	<p>AA916748, R83779, AA331626, AA400220</p>

1520	HOVAN13	876540	than or equal to $a + 14$. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 446 of SEQ ID NO:1520, b is an integer of 15 to 460, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1520, and where b is greater than or equal to $a + 14$.	
1521	HWBEX78	876543	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1658 of SEQ ID NO:1521, b is an integer of 15 to 1672, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1521, and where b is greater than or equal to $a + 14$.	W20138, AA229752, AI380196, N44538, AA026809, R41836, N71112, N33777, W05473, AA026870, W15415, AA888089, W39614, R68936, AI143439, H05574, AA229960, H00351, R63287, T54159, C05110, AI867490, H00306, W91983, T53767, R63233, AA768472, T54164, R71658, R71163, N91009, T53773, R68825, AL137657, AL109669
1522	HRODG74	876544	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 574 of SEQ ID NO:1522, b is an integer of 15 to 588, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1522, and where b is greater	AI797095, AA902901, N47240, AI252632, AI718169, AW079806, H09548, AI203811, AA459245, D25745, C21350, R63205, AC006065, AC002368, AF025422

1523	HCROK30	876545	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 506 of SEQ ID NO:1523, b is an integer of 15 to 520, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1523, and where b is greater than or equal to $a + 14$.</p>	AA278251, AA682308, AI540716, AI184153
1524	HDABK73	876546	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 2777 of SEQ ID NO:1524, b is an integer of 15 to 2791, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1524, and where b is greater than or equal to $a + 14$.</p>	AI744148, AI744113, AI860811, AI889014, AI765413, AW237314, AI765401, AL042645, AI867571, AW293518, AA534578, AI432178, AW169762, AA506984, AA420605, AI142237, AA406169, AW188054, AI147954, AA430324, AL040186, AI197943, AI589634, AA569041, AI015938, AA433904, AA070872, AI188829, AI124780, AA421239, AI149224, AA420647, AI916160, W73655, AI076564, AI768356, R51293, AI638215, AI125307, W51790, AA172002, AA425349, AA565222, AA313542, AA825728, R35270, AW204507, AA100809, W28763, AI222042, AI479185, W26572, W45413, W73608, R52192, AI160529, AW440819, AI422286, AI298011, AA171761, AA421279, R51403, H62930, R52097, R59309, AA581790, W81419, AI768849, W40121, AI708313, AA373236, AW368276, AA434583, Z42217, W81420, AI962360, AA325784, R59310, AI271621, T25845, T06069, F05246, AA806028, Z38264, AA071023, AA815452, N54389, AA810542, AA383377, AI370602, R50941, T87272, T87186, F01748, AA947741, AA773493, AA890049, AI985779, AA984284, AW272799, AL043147, AB007891, AI471995, AW393929, AA044743, AI741975,
1525	HOGCO78	876548	Preferably excluded from the	

	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 673 of SEQ ID NO:1525, b is an integer of 15 to 687, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1525, and where b is greater than or equal to a + 14.</p>	AA044797, AI720824, AI992258, AI480029, AI803250, AI095557, AI245572, AA662934, AA876346, AW327457, AW393932, AW157188, AI669783, AI286104, AA025525, AI090194, AI128230, AI095934, AI189306, AI950299, AI467898, AA028934, AI742307, AA194396, AI809949, AI160162, AI122798, AI034059, AI244940, T55337, H22613, AI431317, AA746600, AI150927, R19215, AI431319, R96173, AW043889, AA876265, AA844331, AW129224, AA860575, AA487470, AI432084, U56654, AW157607, AA669015, AI825990, AA335548, AA731264, AA932576, AA768549, AI270663, AI497894, AI221399, R13183, T39355, AA564849, AI866853, AW272239, AW150208, AI572774, AA668506, AI872423, AI866127, AI568138, AA641818, AI923370, AW118518, AL038665, AW264727, AI582932, AW078818, AI866469, AI687168, AL037582, AL037602, AI241923, AI613038, AI473536, AI866465, AI559872, AI955117, AW020095, AW078606, AI288285, AW090451, AL046942, AW079409, AI635016, AL079963, AI827058, AI590043, AI866780, AI687166, AI620302, AI611738, AI446721, AI961589, AL041772, AI500061, AI457589, AI559752, AW166870, AI125884, AI687127, AI802542, AI452707, AI932503, AL039132, AI581362, AI624293, AI434656, AI587279, AI561228, AW051226, AI348870, AA983883, AL135024, AI289542, AI554821, AI453339, AL138420, AW149925, AW150557, AI915291, AL039086, AW163834, AI654276, AW026882, AI433157, AW083572, AI702073, AA225339, AI860897, AI418681, AL036638, AI923989, AI800341, AW131294, AI539800, AI621341, AI633125, AI698391, AI538564, AL040827, AL046466, AW152182, AI270429,
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	AI355779, AI695726, AI638644, AI628325, AI819014, AI818980, AW079075, AI357644, AW262552, AI927256, AW128834, AL046595, AI636588, AI651840, AW054964, AL119399, AW264895, AI884318, AI889189, AL120995, AL048323, AI912434, AI474146, AL048340, AI612913, AI469270, AW024793, AI818353, AW105459, AI866770, AI445303, AI309306, AI475806, AI267185, AI583558, AI932794, AW410259, AI686576, AI335214, AW148294, AW198090, AI270706, AA502794, AL039716, AI891084, AI520702, AI691088, AI569975, AI434731, AI538817, AI571439, AI279925, AI281757, AI270295, AI819545, AI701975, AL036673, AI670002, AI335426, AI348777, AW051088, AI819976, AI927233, AI912438, AI491842, T69241, AI963846, AI873638, AI565172, AW148544, AI270183, AI699823, AW263355, AI612750, AI540674, AI817523, AW087915, AL041573, AL043152, AI433611, AL080011, AL119457, AI670009, AI285735, AI824576, AI921254, AI538885, W74529, AW020397, AL046618, AI926367, AL135047, AI929108, AI446373, AI500714, AW196078, AI673363, I33392, AL137480, I03321, A77033, A77035, I89947, AL122050, I48978, AL133640, AF008439, AF111849, AF047716, AF090900, X63162, AF106657, AR013797, AF102578, AL137530, AL096744, A08910, A08909, AL096751, AJ005690, A08908, AF090903, AR038854, X82434, S36676, AL137557, AL137476, AF183393, AL080154, AL117457, A08913, Z97214, A65340, AF107847, I17544, A08912, E06743, AF111112, I48979, I33391, AL117416, AL117460, A08916, S76508, AF131773, AF026816, AF215669, AL133075, U78525, AL122093, AL133113, AL050092, AR034821, AF061573, U58996, A58524, A58523, AF090934,

	AF113677, Y14314, AL050155, AL117435, S78214, A86558, AL049938, AL049466, AL137550, AL133014, AF090896, D83032, E05822, X84990, AF017437, Y16645, A18777, AL050172, AL137711, AL137292, Y11587, AF113019, X79812, A08907, I89931, AF141289, U68233, I92592, AJ003118, AF1855576, AL110280, U77594, I49625, A65341, AL050024, AJ000937, AF087943, A76335, Z82022, AL080234, AL122100, AL137558, I32738, AF030513, E01614, E13364, A03736, L04504, U88966, AL049464, U42766, AF028823, AF113699, Y09972, AF124728, AL023657, AL133665, AL080148, AL137521, AL137463, AL122110, I89934, AR020905, AL137429, S78453, AL133645, AF115392, Z13966, AL117585, A93350, S69510, AL137533, AF177401, AL117440, AL050138, AL133010, AF182215, X83508, AF100931, E02349, AF061981, AL137479, U72620, A15345, AL137539, AF097996, AF067728, AL137478, AL080159, AR029490, AL133557, E01314, Z37987, AF125948, I66342, AJ010277, AF090901, AL110222, AR011880, AF118094, AF090943, AR068753, AL110296, AL137459, AL049452, AL137529, AL133016, A23630, AF081197, AF081195, AL117648, X06146, X56039, X62580, AL137560, AL137271, AL133081, L31396, S77771, AL137537, L19437, AL049314, A49139, AF061795, AF151685, S83440, AF044323, AL050393, AF106862, AF169154, A08911, U67958, Y10936, AL049430, X80340, AF118092, AF192557, AF176651, AF106697, AF017152, I09499, I80064, AL137488, AL133619, AL133072, U35846, AF032666, AJ012755, Y10080, X63410, I89944, Y10655, AL050277, AL133637, AL117587, AF153205, AF158248, U80742, AF139986, U75932, A21103, L04849, AF113694, AF091084, AF113690, AF145233, AF118070, E04233, AL080110, U49434, AF026124, U96683, AL110221, AL117578, U87620, A58545,

1526	HCRNG10	876549	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 694 of SEQ ID NO:1526, b is an integer of 15 to 708, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1526, and where b is greater than or equal to a + 14.</p>	<p>DI6301, AL137658, U72621, AL080126, AF104032, AL110218, I68732, E12747, AL133560, X81464, AF013214, AF078844, AL080060 AA737831, AA651628, AI239587, AA912347</p>
1527	HWLRR08	876551	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 604 of SEQ ID NO:1527, b is an integer of 15 to 618, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1527, and where b is greater than or equal to a + 14.</p>	<p>AI040700</p>
1528	HTEFP55	876553	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1089 of SEQ ID NO:1528, b is an integer of 15 to 1103, where both a and b correspond to the positions of</p>	<p>AI950957, AA454500, AW301277, AW409745, W19086, AW388466, AW388282, AA129369, AA159858, AW450017, AW418819, H56484, AA437031, AW082355, AW204742, U28413</p>

1529	HDLAR46	876557	nucleotide residues shown in SEQ ID NO:1528, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 206 of SEQ ID NO:1529, b is an integer of 15 to 220, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1529, and where b is greater than or equal to a + 14.	AL110374	
1530	H2CBW66	876558	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 424 of SEQ ID NO:1530, b is an integer of 15 to 438, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1530, and where b is greater than or equal to a + 14.	AI207993, AI797860, AW137483, AA934986, AA621885, AA569967, AA315265, AA782950	
1531	HOGDS65	876559	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2048 of SEQ ID NO:1531, b is an integer of 15 to 2062, where both a and b correspond to the positions of	AW276060, AW117930, AW271245, AA490688, AI598114, AA315280, AI018136, AW264544, AW378323, AW384544, AW384563, AW378307, AW383155, AW384497, AW086214, AA961504, AA257102, AW192483, AW020066, AA613715, AA461400, AI917637, AW192488, AW021810, AA315269, AA677120, AI783695, AA554460, AI589498, AW378298, AW384566, AW007451, AA461087, AI816732, AW264471, AW368463,	

1532	H2CBX36	876560	<p>nucleotide residues shown in SEQ ID NO:1531, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1144 of SEQ ID NO:1532, b is an integer of 15 to 1158, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1532, and where b is greater than or equal to a + 14.</p>	<p>AW368530, AI341438, AW378317, AI290266, AW368521, AI280695, AW384490, AI418400, AI970613, AI160977, AW023591, AA947181, AW243772, AI040737, AA055400, AW316636, AA962716, N71882, AI376268, AW384491, AI076554, AI952506, AA257017, AA490466, H88912, N69323, AI912481, AA055599, N67469, M86849, I74304, X51615, M81445, M63803, U43932, AF144321</p> <p>AA587891, AA748293, AA313745, AW449668, U84007, U84009, U84010, U84008, U84011, L10605, M85168, AB035424, AB035422, AB035425, AB035423, AB035421</p>
1533	HSHAX43	876572	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 562 of SEQ ID NO:1533, b is an integer of 15 to 576, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1533, and where b is greater than or equal to a + 14.</p>	<p>H66220, AA809449</p>
1534	HCRQI57	876575	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AI361150, AI939490, AW089648, AF002993</p>

1535	HCYBL73	876576	<p>the general formula of a-b, where a is any integer between 1 to 887 of SEQ ID NO:1534, b is an integer of 15 to 901, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1534, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1138 of SEQ ID NO:1535, b is an integer of 15 to 1152, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1535, and where b is greater than or equal to a + 14.</p>	<p>AI744557, AA8311793, AI813443, AA480937, AI110686, AA305609, AA521155, AW025562, AI640749, H96495, AA281170, AA987634, AA836072, AA279428, AI671472, AI077333, AI538508, AA480878, H24707, AA554436, AA280869, AI290360, AA968618, AW104195, AI762018, AI863656, AI910555, H24708, AA329735, D80195, D81026, C14389, D80166, D81030, D80522, D80133, D80045, D80164, D59502, D80212, D80193, D80251, D80269, D80248, D59467, D59275, D80022, D80227, C15076, D59619, D80210, D80240, D51060, D51423, D50979, D58283, D80366, D59859, D80391, C14331, D59787, D51799, D80253, D80038, D80043, D80219, AA305578, D80302, AW377671, D80196, D80024, D80188, D51022, D50995, AA305409, AA514188, D59927, D57483, D59610, D80378, D59889, C06015, C14014, D80268, AW360811, D80241, C14429, AW177440, AA514186, D80439, AW178893, D80247, D59373, D59627, AW375405, T03269, D80157, AW179328, AW360834, AW366296, C75259, AW360844, AW360817, AW375406, D51103, AW378534, AW179332, AW377672, AW179023, AW178905, AW378532, AW178906, AW177501, AW177511, C05695, T11417, D51759, AW377676, AW352171, AW178762, AW352170, AW177731, D59653, AW178907, AW378528, AW179019, AW179024, D80132, AW176467, D51250, AW360841, AW178775, AW177505, AW367967, D80134, AW179020, AW178909, AW177456, D58253, AW179329, AW178980,</p>
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1536	HHEGC16	876579	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>	<p>AI074147, AI249752, AA573289, AI991117, AI744674, AW081142, AW372737, AW383987, AI951269, AI560208, AW372734, AI309528,</p>

1537	H2CBG53	876580	<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1518 of SEQ ID NO:1536, b is an integer of 15 to 1532, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1536, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 468 of SEQ ID NO:1537, b is an integer of 15 to 482, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1537, and where b is greater than or equal to a + 14.</p>	<p>AW372745, AA121349, AI097133, AI310351, AI222028, AW073286, AI160271, AA121301, AW170797, AW388634, H69344, AA278853, AW372735, H47623, AA742972, AA864447, N31288, AW372730, AI572193, AA173309, AW188877, H69345, AW363751, AW372731, AW372736, H47925, AI476011, AW372742, AA278420, AW372739, AW372744, H38254, N22901, AA278794, AA769896, AW372740, AW372786, AW372738, AL040673, AF132937</p> <p>AA307226, AB020236, AF045449</p>
1538	HCYBF23	876581	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 709 of SEQ ID NO:1538, b is an integer of 15 to 723, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1538, and where b is greater than or equal to a + 14.</p>	<p>AA919119, AI949966, AA687405, AA588150, AA721257, AW028336, AA305220, AI522235, AA827201, AW298461, AI220695, AI984660, AI219204, AI026116, M84722, M84721, D12775, D85596, U90888, M84720, D31636, U29910, D88988, D31634, U29907, D31637, U29911, D88989</p>
1539	HODCO80	876583	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>	<p>AW076027, R24903, R32458</p>

			nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 923 of SEQ ID NO:1539, b is an integer of 15 to 937, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1539, and where b is greater than or equal to a + 14.	
1540	HCYBG67	876588	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 357 of SEQ ID NO:1540, b is an integer of 15 to 371, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1540, and where b is greater than or equal to a + 14.	AA305259, L37080, Z47553
1541	HCYBI10	876589	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 892 of SEQ ID NO:1541, b is an integer of 15 to 906, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1541, and where b is greater than or equal to a + 14.	AA446378, AA305361, AA502360, AI912345, AA903395, AW377671, D80522, D81026, D80133, AW177440, AW360811, AW375405, AI262837, D80248, AW178893, T03269, C14389, AW179328, AW177501, AW177511, AW352117, D80251, D80269, AW366296, D80366, D58283, D59859, D80022, C14331, D80166, D80195, D80193, D59927, D59467, D51423, D59619, D80210, D51799, D80391, D80164, D59275, D80240, D80253, D80043, D59787, D80227, D59502, AW378532, AW360844, D81030, AW360817, D80212, AW375406, D80196, D80188, AW378534, D80219, AW179332, AW377672, AW179023, AW178905, AA305578, C15076, D80038, D59610, D57483, AA305409, C14429, D51022, D50979, D50995, D59889, AW178762, D80024, D80045, AI905856,

				<p>D51060, AW176467, D80378, AW352171, AW377676, AW352170, AW177731, AW178907, AW178775, AW179019, AW179024, AA514188, C14014, D80241, AW178906, AW352158, AW177505, AW179020, AW178909, AW177456, AA514186, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, D80132, AW178983, AW179004, D80268, C75259, AW360834, D80302, AW178914, AW178911, AW367967, D80134, D80439, C05695, AW178774, D80247, C06015, T48593, D51097, D51103, D58253, AW177723, AW352174, D80157, AW367950, AW378533, AW178986, D45260, D80314, AI535850, AI525913, AI525923, AF078165, AF205888, AF205889, A98521, X82626, A78862, A84916, A67220, D89785, A62300, A62298, Y17188, D34614, D26022, D88547, AJ132110, AR018138, X67155, AF058696, A25909, Y12724, AR008278, AB028859, AR025207, A94995, AR008443, I50126, I50132, I50128, I50133, AR066488, A82595, AB012117, AR016514, D50010, AR060138, A45456, I18367, A26615, AR052274, Y09669, AR060385, AB002449, AR066487, AR038669, A43192, A43190, A30438, A85396, D88507, AR066482, A44171, AR066490, A85477, I19525, A86792, D13509, AR008408, X93549, Y17187, AR060133, A63261, A70867, AR062872, U79457, AR016691, AR016690, U46128, AR008382</p>
1542	H2CBE01	876591	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 965 of SEQ ID NO:1542, b is an integer of 15 to 979, where both a and b correspond to the positions of</p>	<p>AA307067, AA827296, AA307068, AA972507, AA074169, AL134865, AA096156, AA247393, AA091519, I81218, U30872, U19769, I35495, AF194970</p>

1543	HCYBI92	876592	<p>nucleotide residues shown in SEQ ID NO:1542, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 287 of SEQ ID NO:1543, b is an integer of 15 to 301, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1543, and where b is greater than or equal to a + 14.</p>	R24666, AA305450, M63635, M64590, D90239
1544	HWMCC2 8	876595	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 638 of SEQ ID NO:1544, b is an integer of 15 to 652, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1544, and where b is greater than or equal to a + 14.</p>	AI690065, AI480300, AA927896, AI288678, AI343570, AI343569, AI678924, AW339479, AA836387, AA836420, AC006011
1545	HWMAN6 1	876596	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 222 of SEQ ID NO:1545, b is an integer of 15 to 2236, where both a and b correspond to the positions of</p>	AA583339, AI587061, AW192901, AA307800, AA315469, AA568218, AI150400, AA583146, AW374998, AI955582, AW374874, AI832775, AA345780, AA295520, AW360893, AA294858, AI445680, AW360892, AW360931, AA295782, AF102542, AF038650, R32988, H99036, N39174, N45249, N62843, W60278, W79341, W79441, W93292, W93293, W92077, W92073, AA083227, AA102315, AA111889, AA121668, AA121740, AA505444,

1546	HCQCR04	876597	nucleotide residues shown in SEQ ID NO:1545, and where b is greater than or equal to a + 14.	AA528215, AA574144, AA738177, AA934667, C20604, AA706803, AA781330, AI015034, AI3111392, AI359257, AI360138, AI383772, AI422649, AI582783, AI127637, AI129439, AI130855, AI203460, AI208460, AI610103 W79201, AC006001
1547	HWMFE48	876600	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 342 of SEQ ID NO:1546, b is an integer of 15 to 356, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1546, and where b is greater than or equal to a + 14.	AA813252, AI911238, AI186148, AI743777, AA868390, AI004989, AI808771, AA838553, AA654365, AI911106, AI092279, AA769822, AA523966, AI955005, AI034008, AW085738, AI302130, AI285082, AA158037, AI991179, AI954918, AI167941, AI738706, AA524173, AA887784, AA552303, AI424977, AI024177, AI051807, W56741, AI720296, AI672956, R99385, AA594882, W85752, AA315098, AW382098, N90665, AA778392, D31212, T65680, AA465630, AA158328, AA641295, AA928364, AA812254, AI351201, W20284, AW382084, AI383689, AA215354, AI873941, AW382340, AA639464, AW382339, AW351859, U17077, U17079, U17080
1548	HMTBN44	876601	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a	AI446030, D62937, AA344217, AI950787, D62979, D79906, AW151367, AW151360

			is any integer between 1 to 1409 of SEQ ID NO:1548, b is an integer of 15 to 1423, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1548, and where b is greater than or equal to a + 14.	
1549	HCROI04	876602	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 443 of SEQ ID NO:1549, b is an integer of 15 to 457, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1549, and where b is greater than or equal to a + 14.	M63806, AF035406, M96066, S68616
1550	HTWCT64	876608	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 963 of SEQ ID NO:1550, b is an integer of 15 to 977, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1550, and where b is greater than or equal to a + 14.	AW118825, AI582268, AI924840, AI686918, AI689468, AI565967, AI471821, AW167093, AW438815, AI560103, AW192267, AI351758, AI204255, AA948069, AA775662, AI160736, AA975121, AI347454, AW381442, AI086345, AI805695, AA441899, AW132052, AA233648, AW204634, AI470694, AA464178, AA693693, AI061108, AW028857, N90723, AI275105, AI290106, AW130518, N33172, AA031928, AA476308, AI682854, AI358603, AI332311, AW381443, AI696369, AW381398, AI472619, AI383588, AA404636, AA180763, AA233637, AW381420, AA032029, AI559765, N90350, N44956, W06927, AA182891, C05190, AA883620, AI696426, AA618268, D90034, E01793, E01792, E01791, D28915, D28914, D28912, AI346674, AI348020, AI890197, AW291166, AA167382, AA700159, AI347083, AI056234,
1551	HETBI79	876609	Preferably excluded from the present invention are one or more	

1552	HWTBM65	876610	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2526 of SEQ ID NO:1551, b is an integer of 15 to 2540, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1551, and where b is greater than or equal to a + 14.</p>	<p>AA535792, N76634, AA815232, AI343929, AA490536, AI696964, AI392769, AI346881, AI613246, AA809480, AI318395, AI761658, AI140011, AW190983, AW070699, AA488989, AW291783, AI285896, AA627444, R84232, AI674736, AI280867, H72489, AA488770, AA813879, AI685538, AI858181, AW006758, AA167381, N54554, N71216, AA971023, AA704201, AI612846, AW294335, N22015, R10105, AA744665, AI680111, AI361708, AA313609, N75553, AA337910, H72889, AI689838, R87634, AI867541, AW015119, R38671, R00317, AA548940, AI886417, T98789, W05347, AA337673, T98788, F10720, AI910396, AW374767, AC004687</p>
1552	HWTBM65	876610	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 594 of SEQ ID NO:1552, b is an integer of 15 to 608, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1552, and where b is greater than or equal to a + 14.</p>	<p>AW137982, AI686316, AW137243, AW193522, AW373055, D79340, AI796896, AC004079</p>
1553	HCQBN77	876612	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 770 of SEQ ID NO:1553, b is an integer of 15 to 784, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1553, and where b is greater</p>	<p>AA908796, AA431249, AI743453, AI433466, AI613002, AW302156, AA758918, AA595771, AA432263, AA887241, AI459626, AA931083, AI522039, AA707461, AI612992, AA834959, R50375, AI004115, AI203186, R48003, R48117, L47334, AC005324, AA976609</p>

1554	HKAED74	876621	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 1917 of SEQ ID NO:1554, b is an integer of 15 to 1931, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1554, and where b is greater than or equal to $a + 14$.</p>	<p>AI796510, AA478680, AI972505, AA418501, AI917358, AI923250, AA210747, AI652196, AI652382, AA418404, AI683375, AI224156, AA844697, AA668890, AA315808, AI168734, AI374795, AI469242, AA814749, AI368714, AI347251, AA171797, AI745538, AW450160, AA495861, AI831534, AI206300, AA428536, W95434, AA831973, W95561, AI189412, AA688156, AI867333, AI867770, AI199241, T75325, AI089175, AA479220, AA443765, AA406142, F12995, F13001, T19179, F10596, AA424821, T90046, T19289, T75402, AA776218, F10590, AI868932, AA211708, AI539664, T90147, AA367325, AA428537, AA296374, AA307446, AA171681, AI793116, AI793143, R39216, AF048686, AJ006068</p>
1555	HCQAT20	876622	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 380 of SEQ ID NO:1555, b is an integer of 15 to 394, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1555, and where b is greater than or equal to $a + 14$.</p>	<p>D81622, D60051, H57196, AI125536</p>
1556	HCRMD40	876630	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 332 of SEQ ID NO:1556, b is an integer of 15 to 346, where both a and b</p>	<p>AL044257, W40373, AW250560, AA643353, AI991172, AA402608, AW249124, AI554578, AW328561, AW246456, AW051430, AA308337, AI346750, AW166193, AA703840, AI143755, AI951822, AW080812, AI189652, AI885695, AW166148, AW082817, AI953814, AA602780, AI951334, AI191618, AW248692, W45258, AA503856, AI378866, AA916922, AI089026, AA599791, AA032143, H48844,</p>

1557	HFIHO78	876631	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:1556, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1563 of SEQ ID NO:1557, b is an integer of 15 to 1577, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1557, and where b is greater than or equal to a + 14.</p>	<p>AA402390, AI192449, AA826583, AW070627, N39330, AF004876</p> <p>AW150197, AA846471, AI146351, AI276560, H96798, AW016664, AA253395, W07219, H97716, M63896, L13853, S74227, L06865</p>
1558	HCRPG35	876633	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 264 of SEQ ID NO:1558, b is an integer of 15 to 278, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1558, and where b is greater than or equal to a + 14.</p>	AC004030
1559	HSQFQ92	876637	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 737 of SEQ ID NO:1559, b is an integer of 15 to 751, where both a and b</p>	<p>AI750171, AI692181, AI275606, AI453065, AI521837, AI634107, AW130839, AI654841, AA424967, AA059190, AA047896, AA148675, AW085538, AA026771, AI261336, AI696507, AA992863, N66291, R85666</p>

1560	HUFBF32	876638	correspond to the positions of nucleotide residues shown in SEQ ID NO:1559, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1924 of SEQ ID NO:1560, b is an integer of 15 to 1938, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1560, and where b is greater than or equal to a + 14.	AL134555, AI925308, AI625207, AI969783, AW262828, AW263812, AI685887, AA206222, AI086025, AI284055, AA143639, AI268485, AI312871, AL134554, AA969162, AI282923, AA074267, AA206652, N33991, N22039, T09372, AI760417, AA146631, AW083343, AI479411, AA742178, AW054790, AI586977, AI948545, AI991591, T59451, AI565918, AI572624, AA627495, AA236672, AI798559, AW291470, AA292449, AA593202, T58112, AI815717, AI698280, AI432649
1561	HTXCO05	876643	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 875 of SEQ ID NO:1561, b is an integer of 15 to 889, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1561, and where b is greater than or equal to a + 14.	AW411282, R08081, AA307047, T98713, AW351792, AA325934, AW375839, AI694682, AI968390, AW370749, AW370756, U43431
1562	HWMBJ09	876645	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1371 of SEQ ID NO:1562, b is an integer of 15 to 1385, where both a and b	AW337919, AA523430, AL044577, AW194215, AI686556, AI671043, AA652193, AI815222, AI694846, AA480192, AI289064, AI910616, AI923986, AI557645, AI799943, AI077441, AW007863, AA481900, AI123788, AW024224, AI355044, AW130857, AW054917, AA552445, AA923164, AA300093, AI686879, AI240984, AI625429, AI446337, AI557649, AI557647,

1563	HSIDP84	876646	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:1562, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 848 of SEQ ID NO:1563, b is an integer of 15 to 862, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1563, and where b is greater than or equal to a + 14.</p>	AA524488, AI557652, AI557651, AI557653, AA579950, AW338240, AI557650, AA480098, AI557656, AI557654, AI557655, AI557648, AA994813, AL044578, AI383197, AA910275, R05862, AA887744, R05776, AI940377, AA594829, AA858443, AI557657, AW337931, AW057864, AI720420, AI557646, AW363060, X87342 W61002, AW316845, AI674913, AI678011, AW190676, AI623768, AI934315, AI692242, AI023791, AI935868, AI934327, AI818628, AI589269, AI520775, C05899, AI598121, H58247, AW007303, AI703259, H70829, AI598076, H61582, H70828, AI932542, AI582914, AI587377, AI565896, AI445979, H94487, H79481, AI888892, H61583, M84424, J05036
1564	HUSJA29	876647	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3093 of SEQ ID NO:1564, b is an integer of 15 to 3107, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1564, and where b is greater than or equal to a + 14.</p>	AW173342, AA478670, AI968093, AI379615, AI634726, AW338720, AW104590, AI683681, AW169497, AI421606, AA694059, AI970918, AI432425, AA258286, AA234386, W49607, AI417965, AI359750, AI672733, AI094753, AI359735, AI421216, AI421807, AI492071, AW169163, AA406244, N50451, AI400745, AW051859, AI770144, AI418973, N94584, N22975, AW009450, AI423399, AI522259, AW150839, AI358559, AI688047, AA970514, AI768455, AA305807, AW243536, AI399686, W49640, AI280345, AA703127, AI632111, T63353, AI865130, AI474045, H47786, AI274468, AI341413, AW016684, AI399864, AA694012, AI097106, AL040613, AW182238, AA431110, R14723, R06613, AA972500, AW342058, AA887754, AW086061, AI026763, W23791, AI205812, AA232656, R67689, AA972808, Z45677, R36481, AA479212, AI567031,

1565	HCQAG09	876648	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 286 of SEQ ID NO:1565, b is an integer of 15 to 300, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1565, and where b is greater than or equal to a + 14.</p>	<p>R62535, R84588, N50507, AA969851, T97034, AA649044, AA315207, AA649043, AI471105, AI086675, R36482, AA613263, AI051650, Z41345, R42442, AI074320, R66089, AA812544, R06604, T96927, R06660, N32390, AI868697, R06669, AA432124, N79367, T63677, Z20112, AA883725, AI220180, AC004711, AB020684, AJ011911, AC005271, A74567, AA770028</p> <p>AF061056, AF084644, AF084645, AJ009936, AF188476, AF182217, AJ009937</p>
1566	HCROT53	876649	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 523 of SEQ ID NO:1566, b is an integer of 15 to 537, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1566, and where b is greater than or equal to a + 14.</p>	<p>U17105, Z36714, U20612, Z47766, U20636</p>
1567	HOENX50	876652	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AF039023, AC006432</p>

1568	HCEOW20	876656	<p>the general formula of a-b, where a is any integer between 1 to 319 of SEQ ID NO:1567, b is an integer of 15 to 333, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1567, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 635 of SEQ ID NO:1568, b is an integer of 15 to 649, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1568, and where b is greater than or equal to a + 14.</p>	AA985339, AA325781, AA041430, AC005531
1569	HCRMG16	876657	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 379 of SEQ ID NO:1569, b is an integer of 15 to 393, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1569, and where b is greater than or equal to a + 14.</p>	299757
1570	HCEPH79	876660	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	AA326212

			the general formula of a-b, where a is any integer between 1 to 552 of SEQ ID NO:1570, b is an integer of 15 to 566, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1570, and where b is greater than or equal to a + 14.		AI828664, AW189077, AA186731, AA058868, AA723578, AL121358, AI221227, AI093392, AI138553, AW019870, AI803661, AA826404, AI004869, N67735, AI188839, AI474328, N64380, T71617, AI630399, AL120719, AA127002, AW386045, AA243169, N70412, N40572, AA977240, AI798975, H41757, H41758, AL046756, H40420, H50495, T91967, N44609, AA125926, H14602, AI950747, H20721, H72253, R10731, AW382088, AA069491, R44126, AI472460, AA045529, AA731653, AW366585, AI148840, AI373402, W58735, N35135, AI889177, AA127021, H71690, AA069453, AA125758, AI312614, AB006965, AF000430, AF061795, AF151685, AF019043, AF107048, AF132727, AF020212, AF020211, AF020213, AF132939
1571	HFOYY56	876666	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1643 of SEQ ID NO:1571, b is an integer of 15 to 1657, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1571, and where b is greater than or equal to a + 14.		N76733, H97908, AI765923, AA100164, AI161123, AI269285, N45309, AI379293, AA026656, AA425856, H06713, AA628959, N54759, AA323052, AI123671, R78485, AA317233, N88108, T92033, T84742, AW263910, AI400524, AA628884, AW275553, AI039362, R78527, AA249635, AI041425, N52791, AI699248, AA223953, AI191006, N59264, AB020715
1572	HSXDG80	876668	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1172 of SEQ ID NO:1572, b is an integer of 15 to 1186, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1572, and where b is greater than or equal to a + 14.		
1573	HHEUK77	876675	Preferably excluded from the		AA313261, AA300475, AA133237, AI768979,

1574	HHEDO14	876677	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 711 of SEQ ID NO:1573, b is an integer of 15 to 725, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1573, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1121 of SEQ ID NO:1574, b is an integer of 15 to 1135, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1574, and where b is greater than or equal to a + 14.</p>	AA580098, AA233499, AA314374, AW408727, AA094260, AI751632 AI189206, AI689297, AL037493, AW169116, AA648307, AA062916, AW292736, AI198589, AA902957, AI277799, AA767327, AI3111067, AA937974, AA634429, AI004727, AI299652, AA032043, AA862157, AI291351, AA862156, AA181981, AA993666, AA991222, N52079, AA496026, AI000697, AI581889, AW342034, AI972961, AA948363, AA258118, AI971556, N89925, AA041553, H49505, AI017756, AA031961, W19241, F02366, F08820, R22625, H73943, R09488, AI472632, AA748836, AI262706, AA436938, AA877698, AA187708, AA081668, H94003, H49504, H73988, AA244456, AA259104, H95020, AA082449, F11149, F06110, R53670, X77743, X77303, X79193, L20320, Y13120, U11822, X74145, X83579, X57239, X65070 AA193161, T10237, H11797, D44986, R25550, T77684, R91095, H15636, Z42961, R17883, AA371122, AL035427, AF035288, AC007262
1575	HKIMC75	876680	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 845 of SEQ ID NO:1575, b is an integer of 15 to 859, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	

1576	HWMBI36	876683	<p>NO:1575, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 718 of SEQ ID NO:1576, b is an integer of 15 to 732, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1576, and where b is greater than or equal to a + 14.</p>	<p>AI435038, AI912169, AI701595, AI628945, AI819240, AI361891, AI057030, AI808292, AI478205, AA933801, AA633552, AI830350, AA513475, AI093856, AI566604, AI559922, AI000612, AA587035, AI222881, T27670, AI308944, AI308779, AA948404, AI346156, AA857101, AI539010, AI871676, AI628889, AI344797, AA865820, AI658897, AI475182, AW082952, AW102783, AI346307, AI972243, AL045929, AI682106, AI344182, AI590482, AI345860, AI569870, M16937, S49765</p>
1577	HE8TM64	876685	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1622 of SEQ ID NO:1577, b is an integer of 15 to 1636, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1577, and where b is greater than or equal to a + 14.</p>	<p>AI751497, W25812, AA307338, AA305326, AI367808, AA332338, AA545813, AA047778, AI251787, AL045193, D30819, AA319757, AW293922, X68199, X69987, L00923, AJ001381, AJ001382</p>
1578	HKLSA57	876687	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 645 of SEQ ID NO:1578, b is an integer of 15 to 659, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	

1579	HOGCV45	876689	NO:1578, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1852 of SEQ ID NO:1579, b is an integer of 15 to 1866, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1579, and where b is greater than or equal to a + 14.	AA971761, AA316125, AA779730, AI342295, D82512, D82209, D82400, AI928195, R59543, R51409, Z43988, F11900, T65476, AA081963, AA304478, T65486, D82182, AA188083, X84373, AR031997
1580	HADCX04	876690	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1482 of SEQ ID NO:1580, b is an integer of 15 to 1496, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1580, and where b is greater than or equal to a + 14.	AI824012, AA768896, AI400750, AW291960, AA449520, AI446344, AI911295, AA482984, AA677454, C75000, AA211913, AA449089, AL039130, AI086104, AA809866, AA814760, AA206769, R51297, Z40045, R59544, T65401, AW440101, AW197032, AA280932, T65412, D81782, R59543, AI916155, F09547, AA206804, AA304478, AA743706, C75037, AA209222, Z43988, R51409, F11900, AA316125, T65476, X84373, AF053062
1581	HCRPH70	876693	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3884 of SEQ ID NO:1581, b is an integer of 15 to 3898, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	AI452523, AI478635, AI744981, AI560901, AI565588, AI798581, AI814640, AA653662, AA421151, AI660891, AW444552, AL039553, AI745043, AI570244, AI333562, AA205872, AI719554, AI149680, AW439417, AI921227, AA694055, AI601268, AA316992, AI393735, AW190924, AA838650, AI269927, AI095118, AW151035, AI769469, AW337209, AI025693, AA969146, AA577235, AL039554, AI049679, AA936325, AI242821, AA814514, AL121252,

			NO:1581, and where b is greater than or equal to a + 14.	AW376485, AW131188, AW192413, AL121316, AW014973, AA101068, AL039574, AW131134, AA573629, AA102113, AA961055, AW374678, AA194838, AW178971, AA344374, AW374624, AI183708, AA740187, AI537228, AA226093, R68854, H10750, AI802500, AA225947, AA397942, H13519, AW361330, AI208657, H25331, AA814957, AA618264, AA344846, AW380100, N75624, AA372640, F05661, AA206235, AL046083, T54750, AI701306, AA586552, AI857281, AI202213, H11029, H07142, AA206013, AI141812, AA352818, AI307792, R68760, AW374474, F08374, AA344845, N22383, AA353560, AI869073, AI762329, F01918, AA373973, T54663, N88370, AA092897, AA206054, AI040829, AA356450, R43483, AW374484, H06635, AW389283, AI749924, F04601, T19805, AA082735, AW273597, AW374506, AI557427, AA857322, AI721273, AI423660, AA302091, AA181082, R17993, AW360799, H13417, AA977862, H13460, H13520, AW360925, AI206966, AI206949, AI655406, I32959, X53586, X59512, I32960, X69902, X56559, AF166341, S66213, S66196, I32962, I32961, S52135, AF166343, AF166342
1582	HCRQM22	876696	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 433 of SEQ ID NO:1582, b is an integer of 15 to 447, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1582, and where b is greater than or equal to a + 14.	AW403014, AI904490, AI831848, AA115313, AI761315, L16783, U74613, U83113, AR030545, A79030, U74612, AC005841
1583	HKAEB15	876697	Preferably excluded from the present invention are one or more	AL036025, AW170264, AI752535, AI005255, AI983435, AW246157, AA830412, AA100899,

		<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1260 of SEQ ID NO:1583, b is an integer of 15 to 1274, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1583, and where b is greater than or equal to a + 14.</p>	<p>AW029286, AW249623, AI817149, AI188189, AI080559, AI351548, AI800612, AA053203, AI472277, AA514834, AI805161, AW190531, AI674923, AI126935, AI692174, AW338703, AI298396, AA100900, AI371893, AA614754, AI280045, AA775722, AA748994, AW340009, AW021825, AW079812, AA687655, AA157990, AI335523, H28772, AA053118, AA179129, R98683, F37299, AA490300, AA128782, AI222643, AI971507, AA158221, W22913, AI808088, AI241313, AA128683, W75952, AA490392, AA937369, W70210, F27137, AI420918, R98910, AA878476, AA835695, D61351, T47481, AI698637, AA568407, AI114611, AA918093, AI873390, AA191377, AA352963, AA845387, AA206840, AI886265, T99184, AA179130, AA375818, AA190767, H19574, H92872, AA317262, H46433, AL110366, AA852372, AA318585, AA024678, F15781, H19492, AI356724, F29453, T82979, AA024463, H28745, AI864085, AA732079, AI701200, F31250, T47480, AA380664, D61207, AA206841, AA527568, AW087408, T99183, AI345010, AW152550, AI890507, AI815237, AI078510, AA715307, AA809974, AI520946, AA761557, AI445992, AI659795, AA641818, AW075608, AA857847, AW327325, AI860674, AA748353, AW090087, AI567971, AI433976, AL045413, AI860783, AI963172, AI590043, AI624543, AI064830, AI440238, N29277, AL038529, AW088037, AL038645, AW075084, AI310925, AW161202, AI538885, AI828574, AW161579, AI567582, AI289791, AI471429, AL120700, AW151136, AA659314, AI539771, AL121270, AI432644, AW162194, AI537677, AI494201, AI500659, AA425228, AI866465, AI540674, AI815232, AI801325, AL036652, AI500523, AI537617, AI538850, AI887775, AI270350, AI582932, AL043168, AI923989,</p>
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AI872423, AI284517, AI500706, AI890576, AI445237, AI491776, AW151138, AI521560, AI889189, AI623799, AI500662, AI539800, AW172723, AI582912, AI284509, AI889168, AI440263, AI927233, AI866573, AI633493, AI434256, AI252414, AI866469, AI273179, AI805769, AI434242, AI888661, AI312364, AI500714, AI284513, AI345180, AI888118, AI285439, AI859991, AI436429, AL079799, AI355779, AI889147, AI623736, AI581033, AI371228, AI334884, AI491710, AI440252, AI431307, AW269098, AL047422, AW268251, AI114703, AI866786, AI860003, AI610557, AI431316, AI433037, AI242736, AA808175, AI887499, AW151979, AI539781, AI364788, AI867068, AW268768, AI702065, AI539707, AI885949, AW089557, AI559957, AI285419, AI500061, AI521571, R65859, AI469775, AI866581, AW079432, AW089562, AI567953, AI815150, AI446495, AW131331, AW193530, AA845354, AI445620, AI671642, AI816055, AC004922, U26541, I19368, I19367, U65960, U72620, E08631, AL137480, Y10080, AL080124, S63521, AL110221, I48978, AF132676, AF061836, AJ242859, Z72491, U92992, I89947, AF153205, AJ012582, L19437, A08907, AL122049, A08913, E02914, AF151109, Z82022, A08912, S77771, AL122093, A03736, AL137479, A08910, A08909, A08908, S76508, AL137271, AF017152, AL133049, AL110280, AB019565, AI8777, A77033, A77035, X70685, X52128, AL050149, AF061573, AL133072, S68736, AI8788, X93495, AF067790, I89931, AF215669, A76337, D89079, A08911, AR038854, I41145, I49625, AF113694, S83456, A07588, AL117587, AL049382, AF126488, AL023657, AL137533, X99717, AF102578, AL133619, X65873, E03671, AF079763,				
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	A76335, AF118090, E02349, AL117435, E02253, AL133010, I89934, AL117432, AL133565, AL133606, S78214, AL137539, AL122110, AF100931, AL137526, A65340, X79812, AL133080, AL133081, AF192557, AL133075, U72621, AL080163, AL122121, A08916, AF078844, AL137429, AF175903, AF065135, AJ238278, U87620, AL133014, AJ005690, AF182215, AF115410, X72889, AF113677, I48979, U66274, E06743, U78525, AF115392, AL080126, AL137550, A58524, A58523, AL133104, AL133067, AL133077, AL050277, AF118094, A65341, U58996, AL080074, AL049466, AL133557, AL137529, AL110158, AF090903, AL050155, AL137665, AF169154, Y10555, AF113690, AF090934, AF104032, AF067420, X06146, Y09972, AL117583, M86826, AB007812, M27260, AF061795, AF151685, AL110222, AL133054, X63410, S75997, AL133093, AL133558, I26207, AL050172, AF017790, AL080158, E01314, AF090900, AF125948, AL096744, AL050393, AF106862, AF081195, E07361, I89944, AL133560, AL137537, AL049283, AL117460, AF109155, M96857, A58545, U57352, AL050108, AF004162, AL137488, AC004200, E01614, E13364, Z97214, AL133112, U88966, AL117648, AF162270, AR068751, AL137627, AF207750, A57389, AF118064, AL137478, AC004383, I33392, D44497, AL137530, AL133640, AL117626, AF143957, U95114, AL137459, AL137711, AL050116, AL137558, A08915, AL110225, AL122118, AL050092, X72387, AL050138, U42766, A15345, AF106945, AF091084, X82434, X66862, AR009628, AF118092, AF120268, AF094480, AL137471, AL049452, AF044323, AJ010277, AF090901, AF137367, U35846, AC003032, AL137300, AF002985, I80064, AF114818, AL049464, L13297, Y16645, AL049300, A86558, AB029065, AF097996, E04233, Y11254, AR029490, AL122106, AF111851, I46765

1584	HSYAP76	876701	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 484 of SEQ ID NO:1584, b is an integer of 15 to 498, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1584, and where b is greater than or equal to a + 14.</p>	AW411543, AL039599, AI351337, AI826980, AA160380, N67961, AI378493, AI951298, AI090558, AI348126, AA478324, AI200956, AA644040, AW024189, AA587243, AI812050, AI362845, F29594, AA776518, AA789114, AA931516, AI003566, AI707494, AA970343, H11327, AA947278, AA076341, AA915984, AI299557, AW299825, AA024520, AA258801, AA169301, AA342232, AA484880, W90755, AA516277, AI015269, R53617, AA113377, AI379669, AA829839, AA876766, H05518, AA053830, AI991853, AA810454, AI766365, R85352, AA502109, AA922383, H09142, AI680956, R69168, AA865843, H85022, AI886514, AA215481, R06394, AA524191, AA074146, AI638009, R76047, AA528723, F19676, AA588290, N56241, N75886, R22963, AW090423, AA088341, N22109, R75873, AA508387, N98357, N67304, AA749208, AA355684, AA258709, R87295, AI192394, AA477680, AA765589, AI886515, AA302356, AA670313, H11756, AA236894, AA304541, AA417858, AW167222, R51947, AA307613, AA478268, AA641818, AI252414, AI312364, AI244249, AI345180, AW269098, AW268251, AI348870, AW268768, AW073865, AI670009, AI473536, AI538259, AW409772, AI307604, AI433157, AI702073, AA838230, AI500061, AW084056, AI633125, AW152182, AI887308, AI872910, AL045500, AW020397, AW079432, AL040184, AI648454, AI766348, AL036631, AW162118, AW051088, AI698391, AI915291, AW088691, AI859991, AI582932, AI872423, AI889189, AI521560, AI866469, AW238688, W74529, AI281800, AI690748, AI569583, AI432030, AI610770, N75779, AI538564, AW161156, AI683173, AW089275, AA235825, AI623941, AI537677, AI890907, AI612852, AL046595, AI918435, AL047344, AI884318, AI569637, AA579618, AI868931, AA001397,
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	AI340519, R81679, AI860003, AI625079, AI890507, AI499621, AW268067, AI620003, N33175, AI963058, AA420722, AI471909, AL121365, AW198090, AI890214, R32821, AI612750, AL037649, AI627988, AL045163, AW151136, AI815232, AW103442, AW078839, AL037454, AL119828, AL036802, AI579901, AI538764, AL039274, AA502794, AA908294, AI863241, AW020095, AI499986, AI288285, AW083374, AI624293, AI590575, AI345745, AI950892, AI801325, AI500523, AI677796, AI537273, AL037030, AI611906, AI797908, AI500662, AI866770, AI888661, AL121564, AI498067, AW118518, AI241923, AI254727, AI366900, AW193850, AW022808, AW078735, AI889376, AI687362, AL038605, AI564719, AA693331, AI783530, AI580190, AI379711, AA505147, AI610895, AW160905, AI866465, AL037582, AI567582, AL037602, AI696612, AW163834, AF091555, U37408, AR014566, AJ010483, AB033122, AF067795, U35846, I48978, I89947, E04233, AR038854, AJ000937, Z37987, AF090900, E12747, S63521, I48979, A08913, AF087943, A58524, A58523, A08910, A08909, AL023657, AF090934, AF125948, AL137271, AF026816, AF111849, E07108, A77033, A77035, AF090943, AF158248, AL133113, A08912, I89931, AL050172, AL096744, AL080148, AL050393, AF057300, AF057299, I00734, I49625, E00617, E00717, E00778, AL133665, X72889, A08916, AF113694, Y10936, X70685, AF146568, AL122118, AR013797, AF113019, AF097996, I33392, AL049314, AF026124, AF090903, AL137533, AL137488, AL137476, AL133560, X81464, AL133067, AF028823, Y16645, AL049283, AL122050, AF079763, AL049347, AL050116, AL137558, AL137480, AJ012755, AL133080, AL110221, AL117457, AF061981,

			<p>AF104032, M92439, Y10655, AL137283, A65341, E05822, A08908, E06743, AF177401, U78525, AL137550, AL117435, A03736, AL110280, AL137557, AL080159, AF113699, Z82022, I46765, AF183393, Y14314, AL050149, AL133568, AF185576, Y07905, AL137294, S78214, AL122110, AL049300, AL050024, AL137478, E02349, AL137459, AL117460, AL050155, U88966, AF100931, AL110196, AL049430, AL137529, AL117394, AL137705, AF061573, AL137292, AL110159, X60786, AF132676, AL133640, AF061836, AL110197, X84990, A93350, AF039138, AF039137, AL133606, X83508, AL035458, AB016226, X82434, AF113677, L19437, AL050277, X72624, AL133075, X65873, AL137479, AR011880, A18788, A21103, AF091084, AF017437, AL117463, AL137523, AF061795, AF151685, AL133016, S68736, AF090901, AF106657, AF106862, S36676, AL049938, A18777, AR000496, U39656, AL080110, Y09972, AF090896, AF008439, AF098162, AF113013, AF054599, AF067728, AL117416, AF153205, A07647, I09499, AL050108, AF032666, S61953, X87582, Y11254, AL049382, AL117626, I17767, AJ238278, AL122100, AJ003118, AL050146, AL122093, AL050092, X98834, AL137463, AF113690, AL117644, X83544, AF111851, U58996, AL049466, AF090886, AL117440, AL110225, U80742, AF030513, AL050138, AL133031, AF102578, I42402, U00763, E03348, AF118094, ARQ38969, AL137538, AL080074, I03321, X59414, AF139986, U42766, AL137660, X53587, D83032, AF162270, X62580, AL117583, L13297, A12297, AL122121, AL122123, E15569, AL080124, AF119337, AF117959, AF113689, AF126247, A65340, U67958, AL137560, U67328, AL133081, AF151109, AL117649, E08631, AL133072, AL110222, AF079765</p>
1585	HCRMV17	876716	<p>Preferably excluded from the present invention are one or more</p>

1586	HOEKC59	876719	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 714 of SEQ ID NO:1585, b is an integer of 15 to 728, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1585, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1794 of SEQ ID NO:1586, b is an integer of 15 to 1808, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1586, and where b is greater than or equal to a + 14.</p>	<p>AI436209, AW026035, AI401315, AI446530, AA588136, AI591172, AA497132, AA927681, AA497055, AI951115, AI200036, AW238900, AI493315, AI400504, AI089283, AI925204, AW069539, AA857330, AI191461, AI378670, AA410339, AI472923, AA747530, AA766215, AA234951, AA988960, AA037081, AI246277, AI167513, AA704133, AI080251, AI055948, AA614812, AA130081, AI015171, AI493376, AA235125, AA825222, AA449908, AW206209, AA130080, AA029281, W25810, AA613492, Z44379, T19354, AA406250, AA250960, N74300, T19203, AI417639, D82431, AI198426, R23635, Z40312, AW390845, D79780, D79680, R24115, AA455230, AW390828, D63116, AA455608, T10625, W51823, N88198, AA029425, AW390832, D19792, AA258657, AA449961, AA089740, AB003103</p>
1587	HKCSL28	876722	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 363 of SEQ ID NO:1587, b is an integer of 15 to 377, where both a and b correspond to the positions of</p>	<p>AI275539, AI299922, AI245421, AA872397, AI288931, AA927697, AI244692, AI378809, AA887588, AA917836, AA894628, AI299933, T28672, AL022315, M87842, M14079, M87859, M87860</p>

1588	HHEFB46	876725	<p>nucleotide residues shown in SEQ ID NO:1587, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1472 of SEQ ID NO:1588, b is an integer of 15 to 1486, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1588, and where b is greater than or equal to a + 14.</p>	AI052256, AI126717, AW189938, AA745594, AI885180, AW070663, Z99376, AI014817, AW239211, AI784576, AW327439, AA524748, AW073683, AW276639, AA835672, AI608763, N36799, AW247076, AA627848, AI127547, AA740916, AW327258, AA166916, AA568685, AA828239, Z99375, AA700740, AW327612, AA812422, AA099018, AA761648, AI051506, AA573156, AI025865, AA503846, AA592898, AA160273, AA775540, AA451628, AI185757, AA768416, AA687268, AI371140, AI371046, AA074799, AW029151, AW250428, AI138225, AI089539, AI004126, AA809470, AI537332, AI073676, AI190076, AI278484, AA167073, AA127406, AA649193, AA721424, AA715174, AA978034, AA524391, AI923795, W88636, AA393865, AW403551, AA173982, AW362155, W73908, AI635344, AA856908, AA962673, AI024400, AA992622, AI167830, AA314538, AI031946, AI752947, AA100657, AI922493, H83589, AA593126, AA88675, R54097, AA031733, AI033288, AA506081, AI380802, AI491801, AI953284, AA085335, AA127405, AA515785, AI761093, AA076411, AA075012, AA305905, W76601, AI039462, AA450223, AA112634, AA082732, W74770, AW341032, AA725074, AA074990, AA009468, AA889213, AA565437, AW079297, AA099096, AI064753, AA027240, H00352, AA173626, AI380804, W88554, AA076267, AW105351, AA076266, W52167, AW021312, AA693887, AA164763, AI249663, AA031732, AA403080, R89292, R51433, AW327440, H02543, N52907, AA113337, AA127505, AI282747, AA164762, AA411811, AI459951, AA133539, AA514558, AI197787, AA160272, AW393147, AA314358, AA933718, C00036, AA639385,
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1589	HWBBS84	876726	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 984 of SEQ ID NO:1589, b is an integer of 15 to 998, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1589, and where b is greater than or equal to a + 14.</p>	<p>F25558, H02544, AI696072, H71452, AA361575, R11641, AA115764, AI720134, R54151, AA588847, W73014, R99520, R89293, AA969406, AI797468, AA864670, AI083791, AA628031, AA974650, AA053334, AI379135, AI380120, AA058648, T27975, AA393799, AA738408, AA076505, H94038, AI126113, AW449655, AI686294, T47873, T73141, R16766, AA810517, T74664, R07722, R07723, AI300209, N45959, H47972, AI379137, AA903779, AA876048, AA320546, AA922980, AA782268, R10017, AA644180, R15278, AA356761, AI688217, R93621, AI476203, AI267797, AA027239, AA910612, AI201954, R09847, AW364121, AA179728, H47662, AW104377, AA872213, AI718364, AW166745, AA191273, AA492543, T83787, W24030, AW197934, T11052, AI686637, AW351540, N55602, AA127491, AA665178, W63552, AI143483, R99521, AA009700, R85393, T03064, F05216, F06634, T18456, H94124, M29536, X73836, AL031668, AC007934, AF076927</p> <p>AA775676, AA306997, AW299505, AA295175, AI660377, AI698467, AI925518</p>
1590	HSIFZ22	876728	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a</p>	<p>AI554023, AI913274, AW383970, AW383965, AW383954, AI539770, AI609013, AL043107, AW383974, AW383967, AW167072, AW383980, AI591170, AA001432, AI612801, AW129469, AI799420, AA001431, AW383968, AI978633,</p>

1591	HCRNB80	876731	is any integer between 1 to 2108 of SEQ ID NO:1590, b is an integer of 15 to 2122, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1590, and where b is greater than or equal to a + 14.	AW383979, AW380739, AI289788, AL041919, AI375787, AA888783, AI560125, AW383982, AI129128, AI073851, AI818814, AA157885, AA157573, AW365658, R53920, AW363206, AI590019, W67551, D29067, AA143454, AI273137, T29043, AI681062, AA862112, AW383985, R53921, AI609506, AI648445, C00135, D29068, AI567045, W67580, N74341, AW189660, AA143453, AI168413, D29362, AW383976, AW363205, AW392754, T25083, L34155, X84900, X84013, X84014, U61261, X85107, X85108 AI750182, S79871, S79910, U37431, S79869, AC004079, Z64816
1592	HTPAY47	876732	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 515 of SEQ ID NO:1591, b is an integer of 15 to 529, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1591, and where b is greater than or equal to a + 14.	AL045837, AW290917, AI925409, AW168903, AW068826, AI083568, AW026383, AW262903, AI926513, AI979214, AI890598, AI750592, AW339074, AA418236, AW029483, AW022107, AW295181, AA664461, AI752803, AI740606, AI147688, AA970819, AW068765, AI473816, AI751522, AI925816, AI459360, AI752768, AI752291, AA639417, AI460028, AI752525, AI750945, AI694639, AA599476, AW131293, AA242752, AI750659, AI889686, AI888426, N71781, AI357766, AW021892, AI755098, AA350793, AW067910, AA853461, AA298896, AI784082, AA853579, AA852453, AA852454, AA853800, AA307755, AI925501, AW021059, AA976657,

1593	H2LBA37	876743	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 675 of SEQ ID NO:1593, b is an integer of 15 to 689, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1593, and where b is greater than or equal to a + 14.</p>	<p>AW150473, AW166734, AA627471, R30650, AI752649, C01914, AL049389, AL109718, AB033025, I95744, AR053539</p> <p>AA315933, AA314510, AF121164</p>
1594	HWLJP86	876744	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 932 of SEQ ID NO:1594, b is an integer of 15 to 946, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1594, and where b is greater than or equal to a + 14.</p>	<p>AW024392, AF121164, AA863031, AA639871, AA954258, AA877523, AA741216, AI289873, AA515094, AA568880, AW272162, AA315933, AA314510, AW135907, AA887896, AA954266, AA577173</p>
1595	HGBAM79	876745	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 861 of SEQ ID NO:1595, b is an integer of 15 to 875, where both a and b correspond to the positions of</p>	<p>AA424088, AA419164, AI003828, T28640, H69474, Y00291, M96023, S56660, X07282, AF110730, AF110729, AF157483, X59473, I09352, I09359, S63196, X57340, X57339, X56674, X57341, M96022, I09358, M96021</p>

1596	HKAFU85	876747	nucleotide residues shown in SEQ ID NO:1595, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1243 of SEQ ID NO:1596, b is an integer of 15 to 1257, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1596, and where b is greater than or equal to a + 14.	AI346365, AA641709, AA627539, AI340146, AI909720, AA555216, C16952, AW014754, AA857163, AA975933, T29526, AI431323, AI269804, AW371982, T61465, D29449, AW268543, M30704, AR052268, M30699, M30703, AR052271, M30698, AR052272, M30700, Y09830, M30701, M30702, AR040760
1597	HNFE067	876750	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 927 of SEQ ID NO:1597, b is an integer of 15 to 941, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1597, and where b is greater than or equal to a + 14.	AW361809, AA775705, AW361849, AA639664, AW361714, AW370643, AW361561, AW378536, AW378537, AW378541, AA088182, AI185232, AI679593, AW378535, AI831033, AW390710, AA043959, AA088652, AA968933, AA621368, AA628938, AA524822, AA043825, N21038, AW062555, AW361879, AI620610, AI906062, AW385408, AW373796, AW385411, AW385415, AW360894, AF112225, H75542, AW385929, N84722, T19738, AW193817, AW379467, AI135407, AA096480, AA911574, AA745725, AI245925, AA128676, AI087249, AI744235, AI752870, AF201337, X05276, Z98883, AC006316
1598	H2MBA27	876752	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 491 of SEQ ID NO:1598, b is an integer of 15 to 505, where both a and b	AI571948, AA308400, AA573793, AA314326, AA568312, AA614579, AI925552, AA307578, AA507595, AA614409, AA314825, AA578674, AA582084, AW009769, AA514776, AA588034, AW004668, AA587613, AA858276, AW050700, AI624586, R83818, AI001051, AI910275, AW050690, AA864309, R83377, AA524242, AA507418, AI202532, AI307407, R55389, AI970839, R55292, AI909751,

1599	HWLMB30	876753	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:1598, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 266 of SEQ ID NO:1599, b is an integer of 15 to 280, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1599, and where b is greater than or equal to a + 14.</p>	<p>AI910083, AI909772, AA614539, AI909749, AA506787, X00474, X52003, E02904, M12075, E03953, X05322, X05321, X05030</p> <p>AI307407, AI571948, AI909772, AI909751, AI909749, AW009769, AI970839, AW050690, AW050700, AA524242, AA587613, AA858276, AI202532, AA507595, AW004668, AA514776, AA578674, AA573793, AI925552, AA614409, AA614579, AA588034, AA308400, AA582084, AA307578, AI001051, AA568312, R83377, AI624586, AA314326, AA314825, AA507418, X00474, X05322, M12075, X52003, E02904</p>
1600	HHEBN60	876760	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1515 of SEQ ID NO:1600, b is an integer of 15 to 1529, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1600, and where b is greater than or equal to a + 14.</p>	<p>AI131324, AL037422, AL037391, AW161774, AI890947, AA122289, AA584305, AW273236, AI862040, AW085692, AI209167, AA148506, AI351762, N66647, AI523188, AW273178, AI830451, AA452008, AA705906, AL043832, AI571577, AI219060, AI361659, AA632645, AA662786, AW273354, AI885486, AA627153, AI050005, AA580620, W56473, AI266655, C75555, AA884431, W70047, W70048, N63491, N64411, AW055257, AI424319, AI554547, AI521110, AI559699, AI623228, N92821, AA160261, AA135865, AA171948, AI619980, AW088109, AA169427, AI434909, AW021267, AI539602, N94794, H03661, AA999936, C17025, AI055978, H03756, AI567074, AA151579, AI918516, AA207108, H88943, R70308, AI904987, AA345034, AI970814, H89175, R70632, AA135864, AA740380, AA156595, AA353886, R22230, AA618325, D56914, H44681, AI355451, AI955112, AI919589, C75412, AA577375, C75470, AI907423, T50659, AW263380, D56915, C02126, AI284452, R31847,</p>

1601	HOEMQ68	876762	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3082 of SEQ ID NO:1601, b is an integer of 15 to 3096, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1601, and where b is greater than or equal to a + 14.</p>	<p>T40470, AI904794, AA384278, AI568036, T39196, C75672, T27972, D55752, R22288, AA862190, AI907464, AA149395, AA513034, R35775, AA484012, AA649723, AA160260, AA074934, AA262411, AA828667, AA501402, AW302880, AI076612, AA506004, AA975564, D19957, L10911, L10910, AL034370</p> <p>AI810904, AA603949, AI680975, AI754691, AI126502, AI393833, AI770102, AW261877, AI335098, AI633698, AI093265, AI027769, AI885125, AI373081, AI580943, AI393771, AA749301, AW338708, AI250780, AA287845, AW453050, H71837, W03966, AA152044, AA603836, AA287846, AA042955, N99630, W02451, N25637, AI917997, AA244066, R63787, AA578977, AW239000, R78310, H54574, AA037115, N34235, AI240141, AW130305, H02870, AA042815, R73884, AA334992, AA114063, AA515422, AA368391, R62757, AA311857, R82819, AI128764, R63733, AA664138, AA953035, AA113801, R63857, AA298118, R23143, R62758, T69806, AA303428, R34175, R73971, H59544, R23144, T70792, R31823, R82820, AI933547, AA244223, AI806610, AA742952, AI453225, AA327996, AW338192, R22283, R77939, AI240290, N72673, N95485, AA152084, AI383282, H60415, N98505, AW361055, R32084, R31777, R34297, R32031, AA374818, AA300327, AI076967, AA622059, R63858, N73903, AW150955, AI368478, AA037154, AW087179, AL080209, X67780, AF130561, M96248, M64474</p> <p>AA347863</p>
1602	HHFCP36	876764	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 322 of</p>	

1603	H1XKH86	876767	SEQ ID NO:1602, b is an integer of 15 to 336, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1602, and where b is greater than or equal to a + 14.	AA314774, AI291017, AA191539, AI298290, AA147791, AW238920, AA308544, AA187762, AA081307, AA075926, AA773549, W52392, AA780574, AL038991, AA307244, AA181578, AA081167, C06415, AW402249, AA165319, AA132481, AW247110, AA076454, AA079384, AA304499, AA181561, AI857405, T35498, C06389, AA181655, AA314234, AA352654, Z45227, AA992505, AW000888, AI651014, AI392985, T34265, AI344273, AW341319, AA190808, R71708, AF104669, U87954, AR035973, U59435, X84789, U43918, U50137
1604	H1SCI72	876771	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1021 of SEQ ID NO:1603, b is an integer of 15 to 1035, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1603, and where b is greater than or equal to a + 14.	AI743600, AI885169, AI937505, AI042181, AA854952, AI522015, AA400219, AI522002, AA305093, N26064, AI888285, AA400130, AW296334, AW292016, AW440393, AI146794, AA187458, AI262079, AA855005, AI476446, AA187590, AI202446, AA860740, N50825, AI014949, AA041540, AA846133, AI335358, AA885027, AI038001, AW163208, AW070692, C06284, AA838476, Z43206, C05759, AA190468, AI680041, AA635314, AI034110, AA622708, AI000051, R64675, W44694, D60048, AA805958, F07813, Z40908, AA565995, F02659, AI471921, F05522, F05523, AI034108, R27644, AW236720, AA039917, AW163735, R64676, R27550, W38645, F01794, F01795, AW263460, D52614, AW151942, AA090824, C00912, X92396, AJ225782, X96737, AJ004799, AJ225808, X95807, AJ133541, AJ133539, AJ225807, X95806
1605	HJACI75	876773	Preferably excluded from the	AA309052, AW247981, AA311506, T87086, AA352616,

			<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 665 of SEQ ID NO:1605, b is an integer of 15 to 679, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1605, and where b is greater than or equal to a + 14.</p>	<p>AW339919, R01803, AW054854, H63371, AI097555, AI128037, AW392879, AW392871, AI197762, AW392909, H45736, U18300</p>
1606	HTEDS58	876776	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1663 of SEQ ID NO:1606, b is an integer of 15 to 1677, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1606, and where b is greater than or equal to a + 14.</p>	<p>AA147098, AA506483, AA459122, AA553631, AA687219, AA639000, AA507321, AI475344, AW016032, AA902221, N47467, H15303, W69943, AA419435, W69833, AA680161, T27895, AI680311, H93979, C75158, H93980, R25544, AA223335, H15697, AI758259, AW079484, F02620, AI933243, AI680312, F02623, AI191766, R12384, AA371184, AA714796, AI383543, T69739, R09794, AI873805, AI581822, AI371311, R15273, AA093267, AA312224, S67325, X73424, AB000886, M14634, M13573, AJ006497, AJ006496, AJ006499, AJ006494, AJ006488, AJ006491, AJ006493, AJ006492, M31167, AJ006498, U86128, M31169, AJ006495, M31168, AJ006489, AJ006490</p>
1607	HUVHP60	876789	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1195 of SEQ ID NO:1607, b is an integer of 15 to 1209, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1607, and where b is greater</p>	<p>AA347492, AA307478, R18976, AA233030</p>

1608	HUFC129	876791	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2594 of SEQ ID NO:1608, b is an integer of 15 to 2608, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1608, and where b is greater than or equal to $a + 14$.</p>	AW007623, AI963511, AI587104, AI453405, AI694729, AI796832, AW363443, AW387811, AW387793, AI826957, AW361899, AI955696, AI955780, AI827005, AW387799, AI828295, AW192552, AA581220, AA527188, AW387817, AW363244, AI818260, AI9556167, AI801443, AI904486, AI400372, AI921063, AW338519, AI693877, AI074261, AI927711, AI956102, AI920992, AI972695, AI911695, AI828218, AW076111, AI682785, AI921387, AW387812, AW337936, AW363218, AW364488, AI346975, AI913862, AW440967, AW130304, AW360772, AI696946, AI672948, C05920, AI587485, AW070932, AI635943, AI262029, AI739440, AA100719, AI955836, AI262264, AW376483, AW130542, AI972967, AW175800, AW387796, AA579753, AI446049, AI569938, AI934313, AI609930, AI677998, AI431963, AA553880, AI828330, AI597812, AA040073, AW360835, AA917638, AW377104, AI682718, AI354639, AW376508, AW192548, AI962102, AW376484, AW392307, U47705, AI813978, AW362727, AW361642, AA828073, AI261531, AI277071, AW136050, AW361304, AI934325, AA152037, AI695028, AI631388, AW377034, AA316326, AI470301, AI962061, AW377083, AW360762, AW362547, AI640638, AW391349, AW375920, AW376475, AW243579, AA130547, AW365061, AI961867, AA135037, AA581264, AI250167, AI453469, AI696953, AW376234, T29561, AI589481, AI582988, AW387713, AI537547, AW387715, AW376010, AI926514, AA132781, D45505, AA367446, AA838269, AA295348, AI828399, AI473526, AI587351, AA053595, T93569, AW376489, AW393447, AI584131, AA132182, AW360942, AL121028, AI569894, AI264699,
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1609	HCRNO02	876795	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1999 of SEQ ID NO:1609, b is an integer of

1610	HAUAF56	876798	<p>15 to 2013, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1609, and where b is greater than or equal to a + 14.</p>	<p>AI367070, AA976607, AA583461, AI249930, AW051844, AW205361, AA507715, AI954585, AA922244, AI273733, AA126244, AI087863, AI251918, AI334712, W67736, AI242730, AA101742, AW135527, AW402172, AA640129, AI347209, AI286337, AI581372, AI469691, AA069014, AA934842, AA508884, AI887809, AA831979, AI244186, N50480, AI275702, N50424, AA736752, C20724, N95586, AW304156, AA459318, AW192272, AI275964, AA947333, AA902224, AI220977, AA742300, AA321817, AA553858, R63954, AI933896, AI569580, AW084360, AI802071, AA888637, AI802496, AA364540, AA330481, AI623357, AA459100, AI879891, AA321816, AA806651, AW270487, AW117230, N73503, AI763427, AI570080, AA602961, T27344, W25008, AA306002, AW377570, AA016984, W67735, AA377036, AA092406, AA876851, R27168, AA069079, U18914, S82081, U35428, D82579</p>
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 590 of SEQ ID NO:1610, b is an integer of 15 to 604, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1610, and where b is greater than or equal to a + 14.</p>	<p>AA843663, AI636447, AI652163, AI741572, AI734839, AI191667, AI311840, AI092011, AA838667, AI651387, AW236921, AW241575, AA861653, AI800862, AA602368, AI689816, AW051840, AI354951, AA573089, AI148406, AI141828, AI183782, AI194006, AI693445, AI635512, AI493869, N90872, AW237388, AA126737, AA732844, AI192168, AI217045, AA137055, AA994789, AI493086, AA845631, AI094429, AL047557, AA181124, AI140430, AI860338, AA723326, AA506514, AI718897, AI142056, AA694462, AA527690, AA719919, W60495, AI128784, AA295736, AA719929, W74729, AA046090, AL079932, T27623, AI183793, AA777211, AA187497, W60781, W02217, AL047558, AI962738, W57590, W58378, AI040455, N78658, AA128249, AI092598, AI127083, AI767352, C00790, AI796294, F21069, AI962745, W58054, R82964, AI127007, AA319961, H25260,</p>

1611	HHEUM25	876802			<p>AA046133, F29476, AI024494, D57900, AA187496, R27633, F15904, N92901, F16228, AI880466, AA513941, AI028160, AA320194, AI942291, W15147, AA515161, AA319909, H27992, AA137126, AA032269, W17092, AA305767, AA317925, AA315585, AA316680, AA385920, AA082685, AA393514, AA319917, R82782, W21107, H58270, W60536, AW385090, AI857611, AA320009, AA125888, H48415, W74517, AI080481, H74142, W23645, F37285, AI831575, AW009545, AW405620, AI766029, AI208938, AI338767, H30492, AI907307, F00610, N86957, AI955298, AI904744, C02928, F31730, AA300671, AW375698, AA778636, AA314317, AW131256, AW173066, AI590946, AI880624, AI566275, N91884, AI610714, AA640156, AI573297, AI475815, H26962, AI923398, N25033, AA804541, AI638798, J02874, A98023, M94856, AF181449, AF102872, AF136241, AP000547, AP000365, I88901, R82963</p> <p>AI817822, AA148948, N50594, N25959, AA086480, AA148949, AW272750, AA374494, AW105366, AA160920, N50540, AA602221, AA160014, H53938, AI079093, AI015698, AI439431, T89890, AA086479, H83411, AB033097</p>
1612	HWLQW0 8	876804		<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 965 of SEQ ID NO:1611, b is an integer of 15 to 979, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1611, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 490 of</p>	<p>AW294678, N67220, AI538999, AW119213, AI367010, AI039731, N91158, AI357776, AW051603, AI435358, AI369016, AI091413, AI435427, AW296026, AW195056, AI765593, T16459, H99837, R55315, D29082, H88285, AI537645, R33635, D63011, AI553628, AI923565, AI270171, H49679, D61792,</p>

1613	HOEP07	876807	SEQ ID NO:1612, b is an integer of 15 to 504, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1612, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1636 of SEQ ID NO:1613, b is an integer of 15 to 1650, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1613, and where b is greater than or equal to a + 14.	H52824, R55417 AI290876, AI765569, AI808777, AI338031, AA913566, AA573434, AI568487, AW175945, AI365073, AA845201, AA919010, AW418765, AA236333, AI127241, AI014784, AA687950, AA860243, AI393429, AA236239, AI266211, AA315078, AI802767, AA581469, AA620711, H45711, AI679135, AI572470, AA332122, AI024576, R70552, AA296901, AI809670, AW008766, AI915360, AI687397, AW023240, H45668, H04001, AA297249, AA621680, AW188056, D25944, AW196645, AA506116, H26091, AW193001, R70465, AI784132, AA382289, H03205, AI537449, D58213, AA298492, AA298805, D58295, AA904960, AA298494, AW020800, C03318, AA370634, AF105036, U20344, U70662, AF117109, AF022184, U70663, L26292, AB028623 AI346844, AW001371, AI991265, AI246778, AI749252, AI832475, AW000710, AI672920, AI991837, AI677743, AI281892, AW000809, AI991841, AI983400, AI673613, AW054915, AI991308, AA857748, AI672894, AI732375, AA534503, AI475425, AI673137, AI732350, AA523410, AI991039, AW001307, AA327452, T28149, AA327059, AI991842, AW374797, AI688199, AI475214, M94132, L21998, I95743
1614	HCQAE79	876809	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 973 of SEQ ID NO:1614, b is an integer of 15 to 987, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1614, and where b is greater than or equal to a + 14.	AI738919, AI923216, AW237190, AI769620, AW137673, AI905420, AI905431, AI148633, AW272315, AA587775, AI499299, AW072235, W60565,
1615	HCQDR53	876811	Preferably excluded from the present invention are one or more polynucleotides comprising a	

1616	HOEFO36	876816	<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1473 of SEQ ID NO:1615, b is an integer of 15 to 1487, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1615, and where b is greater than or equal to a + 14.</p>	AA774861, T85091, AA150805, AA666115, AA150811, T33125, AA173650, T84156, R49735, AA150702, Z43018, T35291, H82424, R72617, AI221587, Z38222, Z39956, AA150709, F03307, R48157, T35290, R40351, T35286, H71220, F03153, D61519, AI650460, H71219, AF034745, AF034746
1616	HOEFO36	876816	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 699 of SEQ ID NO:1616, b is an integer of 15 to 713, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1616, and where b is greater than or equal to a + 14.</p>	AI453687, AI571506, AI417180, AI453138, AA993886, AL048366, AI587024, AA769711, AA906543, AI333633, AI692876, AW007640, AI399951, AI983818, AI750469, AI433964, AW130422, AI355200, AI567515, AW069544, AI367996, AW338539, AI925385, AI583403, AI014460, AI077522, AI435310, AI969659, AA149832, AI016334, AI016317, AI804042, AW068411, AA131691, AI339632, AI750268, AA476585, AI955590, AA962069, AI753179, AI247016, AI338848, AW073799, AI753153, AW068385, AI378389, AW073223, AI752287, AA600284, AI474336, AI359229, AA569973, AI342311, AI623621, AI753719, N23207, AI587013, AW068131, AA149811, AA723444, AA996275, N90797, AI888908, AI016443, AI961932, AI445548, AI783830, AA252895, AW382060, AA860598, AI417168, AI913843, AI624276, AW078934, AI635286, H88017, AW296238, H38240, AA131706, H88241, H88729, AI251004, AI351084, AA481319, AA194241, AI520853, AW068232, AI566383, AA853382, AA055161, AI610126, AW021156, AW021155, AI359367, AA586748, H78023, T79480, AA853653, AA779368, R40660, W86006, AW023185, AA055064, T94348, AI033179, AA677178, AA976366, R51036, AA156786, AA131536, C00154, AA131612, T28255, AI701212, R40533, C16582, C21348,

1617	HFIAL22	876817	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3508 of SEQ ID NO:1617, b is an integer of 15 to 3522, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1617, and where b is greater than or equal to a + 14.</p>	D25653, H88728, L12350 AI346330, AA149866, AW190828, AA149859, AA625208, AA156875, AA569973, AW237648, AI610126, AI016317, AA315598, AA741426, N28788, AI247016, AI753179, AI160032, AA476585, AI033179, AI130835, AI342311, AI359229, AI016334, AI378389, AA600284, AW376487, AI753153, AI804042, AI474336, AI338848, AW068385, AA677178, AA435731, AI750719, AI752286, AW376482, N23207, AI075364, AI623621, AI359367, AI752287, AW068222, AI587013, AA962069, AA996275, AI750268, AA137125, AI246892, AI753719, AW073223, AA252872, AI417168, AI955590, W19516, AA397612, AA137054, AA316564, W94600, AI750531, AA723444, AI453687, AA860598, AW382060, AI752635, T79570, AI624276, W95178, AW067923, AW294003, T28255, AW296238, AI571506, R51145, H88729, AA331775, AA313295, AA481319, H78022, AA307252, AI351084, AA316570, AA625464, AW023185, N83257, AA448908, R14334, AI417180, AI520853, AI566383, AA055161, AA307888, AA639814, AA853383, AA993886, T79480, AA375731, AA853653, W86005, AW299293, H88728, AA327868, AA055064, AA906543, W86006, AW068232, AL048366, T94703, AI333633, AI587024, AW007640, AI750469, AI453138, AA193298, AA769711, AI983818, AI692876, AW130422, AA131536, C00154, AI355200, AA131612, AI367996, AW338539, AI925385, AA382961, AI399951, AI433964, AA344029, AW068411, AI014460, AI701212, AW069544, AI750269, AA374787, AA040676, AI583403, AI567515, W46226, AI969659, W46227, AI077522, AA149832, H38013, AW073799, AI435310, AA976366, C21348, AA149811, AA131691, D25653, N90797, AW068131, AI635286, AA252895, AI888908, AI783830, AI961932, N66997, AI016443, H88017,
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1618	HWLMN8 5	876822	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 888 of SEQ ID NO:1618, b is an integer of 15 to 902, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1618, and where b is greater than or equal to a + 14.</p>	<p>AI913843, AI445548, L12350, M81339, X96540, L07803, M60853, M87276, M64866, X87620, M62462</p> <p>AI742117, AW051723, AA933088, AI246040, AI702461, AA612941, AA017379, AI362464, AA173916, AI474790, AI802234, AI863510, AA059061, AI284788, AA724009, L20826</p>
1619	HCGLC91	876823	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1144 of SEQ ID NO:1619, b is an integer of 15 to 1158, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1619, and where b is greater than or equal to a + 14.</p>	<p>AI140351, AI859347, AA530873, AA121548, AI815642, AA768342, AI864674, AA127712, AA722381, AA987515, AW275917, AA417302, AI354682, AI025466, AI859814, AA130959, N92869, AA100477, AW190165, AA768339, AI920875, AI051671, AW089493, AA417265, AA587755, AA045598, N21328, AA314322, AI371694, AA844332, AA043186, AI567303, R83064, AI350331, AW193146, AA580315, AI039892, AA828283, AI952434, AW377665, AI289086, AA100476, AI014387, AA917482, AA975893, N21020, AA621534, AA045597, H94056, AA306867, AW406948, AI564973, AI816957, AA729835, AI289415, AW103201, AI187288, AA661773, H80956, W04309, AW088039, AI018462, AA649285, AI083853, AI952495, AI419448, N47889, R89903, N27984, T40562, D82429, N80197, AA868207, AI955989, AI091426, AI873582, AW138496, H81296, AI288157, AI833059, T91268, R63140, AA130829, D12288, AA298770, AI699667, AI942324, AA310276, W22908, AA074395, D12293, T91580, AA342276, H81350, AA053266, AA353671, AI202414, AI832968, AA342277, AW084334, W25596,</p>

1620	HMHB166	876829	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2246 of SEQ ID NO:1620, b is an integer of 15 to 2260, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1620, and where b is greater than or equal to a + 14.</p>	AA297193, AW351513, AW377656, T98269, DI2294, AI866230, AI908913, AI868829, R83013, AI220723, T85780, AA344066, AA382073, AI310801, AA807562, AI908912, W38488, T91628, AA193223, AI864799, C75247, AA370966, AI144388, AA334159, AW381854, AA311797, AW381856, N51146, AA100050, AA314221, AW380232, AA788629, N74141, AI802279, AI818065, AA894373, AW021281, AL122042, AC007842 AW392298, AW272601, AW014611, AI080627, AA430298, AW384668, AI797727, AI608964, AW272675, AW102844, AA176108, AW377459, AI131469, AI084855, H39807, AA625560, AI056544, AI753175, AI091091, N39574, AW071471, H49986, AA910009, AW439892, H17269, AI963968, AI038233, AI037961, AI038179, Z43393, W44646, H23373, AI656018, H01113, AI908070, AI908158, AI206196, AI831184, W28309, H17270, H23766, Z39465, H50029, AA307687, AW270187, H39808, T35734, N46719, AA031949, AA331031, T34994, AA320956, AA032033, H23262, N38880, H16357, AA355879, F02185, H23737, AA307468, W47462, AA127936, AI352060, F05939, F07123, AI342167, H16309, R27641, AA765464, AI342795, AA176107, AW238220, AI061303, W44647, AA746939, AA524800, AA856945, AA054355, H81732, AA664924, AI624800, AW265688, AA515440, AW023975, AA714524, AW166920, AA054055, AA290802, AI478965, N34258, AA564682, R20234, AW338370, AI049845, H01243, AI749527, AW338244, AA588353, AA745302, AI859744, AA362732, AA528566, AA523695, AF155120, AL034423, U39361, AP000505, AL021453, AC007036, Y14768, U63721, AC003982, AC007193, AC002511, AC004841, AC005632, AP000126, AP000204, Z85987, AC005920, AC005291, Y11107, AJ246003, AF001552, AC005318, Z81359, AL109613, AF111169, AL022322, AC005846, AL121655, AC004181, AL031662,
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AL096701, AC004000, AF038458, U47924, AF001548, AF196969, AC005529, AL049747, AC005921, AL022316, Y18000, AC005348, AL009031, AC007842, AP000359, AC005874, AF134471, AC005091, AC002326, AC004216, U93305, AC004985, AC007845, AL118497, AC002351, AC006388, AC006064, Z83844, Z98949, AC004865, AL080243, AC005086, AL049795, AC005099, AF067844, AL035072, L78810, AC005231, AL121658, AL117337, AL049843, Z97053, AC002302, AC002377, AC005288, AC005822, AL031289, AC003102, AL021546, AF165926, AC005004, AC005081, AC004531, U52112, AL078602, AC006059, AC004814, AC003010, Z93020, AL022320, AL132642, M89651, AC002565, AL049869, AP000117, AC004812, AL049748, Z97054, AC006390, AC006197, AP000104, Z54246, AC016026, AC004081, Z82198, AC004816, AC002492, AC006241, AC007537, AC006023, AL035420, Z99128, AC004019, Z97989, AL031311, Z81357, AC004797, AC003029, AC008122, AC005841, AL133485, AP000688, AC005102, AP000692, AC000353, AL031291, AC002288, AC006071, AC004887, AC002357, AC006276, AC007040, AL031728, AC004837, AC004685, AC005753, Z82190, AL133448, AL023553, Z95114, AC006449, AC005516, U95742, AC002375, AC006160, AC011456, AC004876, AL023807, AP000513, AC004477, AF039907, AL049779, AC006480, AL031281, AL133355, AC007458, Z49258, AC003689, AL049694, AC005225, AC000026, AC004491, AC004770, Z98750, AC004587, AC004921, Z94721, AC010205, AF073485, AC004257, AL021707, AC005736, AC002364, AC004687, Z97630, AL080317, AC002465, AL035405, AC004858, AC003037, Z98036, AC000003, AC003108, AC005180, AC006117, AL133445, AC004021, AC004526, AC004890, AC005280, U80017, AC002551, AC006075, AP000014, AB023049, AC004882, AC005839,				
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1621	HCQDG08	876830	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1063 of SEQ ID NO:1621, b is an integer of 15 to 1077, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1621, and where b is greater than or equal to a + 14.</p>	<p>AC008040, U91323, AC003025, AC004851, AC005944, AL049569, AC005512, AC008033, AC004167, AL049709, AC005546, AC002073, U96629</p> <p>AI174828, AI300532, AW301004, AW247121, AW184021, AA702640, AI291396, AI245914, AI033187, AA911317, AA017031, AA908694, AI017594, AA826532, AI002533, AI357704, AI033267, R83870, AI268718, R83871, H92338, H52695, T29050, AI651192, W26286, H92737, H68163, M76180, M88700, M74029, M84601, M84592, M84590, M84591, M84588</p>
1622	HE8BX38	876831	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2363 of SEQ ID NO:1622, b is an integer of 15 to 2377, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1622, and where b is greater than or equal to a + 14.</p>	<p>AI870000, AA150252, AI818389, AL037804, AW069455, AA452480, W30731, AI498817, W07047, AL036760, AA044764, AW022281, AI129268, W67847, AI032084, AI032081, AI150677, AW338118, AW067848, AW149812, AI336313, AA700790, AA826256, AA931652, AI139518, AI359798, W94966, W17308, AA902723, AA662948, N21313, AA532767, N36278, W75997, AI970175, AI056480, AA741357, AI148372, AA044727, AA121268, AI089380, W17302, AI042150, N52985, N67294, W68682, AW449003, AI270317, AA121268, AW183001, W68776, AI419420, AI356058, AI349330, AI336371, AI359448, H99951, AI989381, AI131425, R80714, AI147483, AI311537, AA150261, N31548, AA885103, AI418180, AA709414, AI141649, AW338638, N55437, AA001935, W78914, N98212, AI052219, AI367635, AI862034, W76647, R79546, AA780884, AI187177, AI333805, AA045312, N24823, W74064, AI623918, N76810, W93372, AI033256, H50726, H15534, AI349421, H15591, D56381, W67788, W63753, N31248, W61122, AA045418, W69374, W69375, W70299, D56097,</p>

	R16959, R79547, Z26985, AA371284, AW075272, R82468, H03770, AA557276, T54892, AA193674, R71125, H67495, AI903697, AA054724, T88917, AA054671, T60999, AA328030, W73059, AI869152, AA299007, AA088621, AA099163, T28498, AI249109, T47984, N21531, N78876, AA343326, AW023118, R16904, R27685, AA370412, AI537432, R22973, N71889, R36621, N93462, H21723, T84233, AA688295, T47983, R71628, W21232, H02874, AA090586, R27587, R35753, AA383049, R23079, R38472, AI499335, AW369677, AI636170, AA303089, R80715, N88610, AA190565, AI498550, AW175704, R82469, R35646, R58194, AA204890, AA055544, N84016, AW379755, R36622, AA733037, N56466, T60941, R29162, AA218875, AW161156, AI621341, AI473208, AW051088, AI918809, AL135047, AI927233, AI590227, AW075382, AI540674, AI539260, AI475688, AI537677, AI698391, AI538885, AI691131, AI859991, AA128805, AW008779, AI950892, AI475371, AW410259, AI524179, AI521560, AI435253, AI814594, AW238688, AI499890, AI636507, AI797538, AI524654, AL047675, AI623941, AW105460, AI630932, AI866457, AI421523, AI560545, AI670895, AI225000, AI620864, AI648494, AI633125, AI499325, AA836168, AI538564, AL038445, AI915291, AW152182, AI582932, AI590043, AI872423, AI619820, AI434731, AI889189, AI479292, AI866469, AI500714, AI884318, AI452560, AI638644, AI570056, AI370623, AI799313, AW189716, AA641818, W74529, AI860027, AI701097, AI499570, AI633009, AI446538, AI590020, M30269, M27445, X84837, X84836, X84835, AL096744, I89947, AL049339, AR038854, AF087943, AL133624, M96857, Y13653, AR034821, A77033, A77035, AL136884, I48978,

	AB028451, AF079763, A91160, AL117457, AL137480, A91162, AL049423, AL049347, X99226, AL023657, AL050277, AL110280, AL117587, X83544, A08913, Z13966, AF126488, AF185576, AL117435, A03736, Z97214, A08456, A31057, I33392, A08912, A08911, A41579, AF060555, A65340, X79812, AL137478, A76335, S76508, A57389, X70685, AL080110, AL117416, A08910, AC004200, A08907, A08909, AL133637, S36676, AL137530, AL137529, I32738, U35846, A18777, A21103, A08908, X66871, A65341, AL050116, AJ003118, AL050155, A58524, A58523, AR068751, Y10655, AL049283, AL035587, AL049447, AF013214, AL117463, AF031147, AF017790, AL110158, AF004713, S82852, AF151109, U42766, X53777, AF111112, A07588, AL080146, AL080159, AL137271, Z82022, M85164, AF183393, AF184965, AL137533, AF177401, AF061981, AF090901, AL050092, AL137267, AF125575, AR050959, AB016226, AL137557, AF065135, AL122104, I48979, AL117649, AL137574, AL122100, E07108, U62807, AR068466, AL137479, AL110218, AL137550, I89931, S77771, E01614, E13364, I89944, AC006288, I49625, AF026816, AF090934, AL050138, E12580, E12579, I09499, U58996, AL049276, AL137300, S83456, Y08864, X63162, E12806, U86379, AF026124, AL137711, AF044323, AL080126, AL133072, I18358, I34395, AF032666, AF057300, AF057299, I89934, AL031346, X61970, S71381, U75932, X97332, AF078844, AL137657, AL049324, X82434, AL110196, AL049430, AL110296, AF111849, U87620, Y14314, AL137722, AF116573, AJ005690, X72889, I77092, AL137537, E12747, A92311, AF082526, AF118094, U67958, I36502, AL137459, U55017, X67688, AL117460, AF047716, A58545, AF124728, AB026128, AL137476, A90832, AL133623, I79595, AF002985, AF100781, AL050172, AL110197,

1623	HMVCR68	876836	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1244 of SEQ ID NO:1623, b is an integer of 15 to 1258, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1623, and where b is greater than or equal to a + 14.</p>	<p>AF106697, U68387, X01775, AF139373, AL137665, X06146, X96540, S61953, A86558, A41575, X00474, AL133080, AF076633, AF159615, AF080622, U37359, AL050146, U73682, AR068753, AL122093, AL133112, AL133665, L04859, I29004, X66417, AL133559, AB019565, A12558, AF113019, AF100931, Y16645, U70981, Y11254, AL122050</p> <p>AI761567, AI149359, AI401619, AA740595, AA588565, AA424137, AI299200, AI143920, AA021117, AI913301, AW151208, AA425305, N47966, AI436446, AI685061, AF052498, AW081049, AW084051, AA451690, AW182326, AI332899, AA169542, AA169443, AA954593, AA042910, AA455865, AA149424, AI432492, AA460942, N47904, AA319689, AI377265, AA042923, AA461248, H20482, AI702363, AI371418, H85541, AW351484, AA151489, AI955508, AA385706, D79614, AA369939, AA834737, AW175964, H50494, AI291715, AI418716, AA861788, AW339974, AA369940, H87923, AA452637, AB033080, D42138, AF011794</p>
1624	HFCAI79	876837	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2455 of SEQ ID NO:1624, b is an integer of 15 to 2469, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1624, and where b is greater than or equal to a + 14.</p>	<p>AL048933, AI271440, AI092964, AI741387, AI760926, AI333315, AI680148, AA889492, AW190196, AW365955, AL048932, AI416991, AI923885, AI445890, AI138940, AI687147, AW365982, AI082757, AA280201, AI559407, AA553490, AW079043, AW001900, AW027109, N25109, AW365942, AI079486, AW451587, AI566301, AI623964, AI032887, AW365973, H22632, AI498456, AI270190, AW023890, AW137893, N40556, H47810, AI336798, H52365, AI933592, AA371581, H52364, AA904952, H22633, AA338820, AI537552, R16961, T82008, H96979, AI565231, AA377237, T81883, T71558, R16906, C01340, AI761493, AA280380, N46600, H48145, AW021702, AA887860, AA377236, T71263, H42623, T71208, AC004849</p>
1625	HBIOH43	876842	<p>Preferably excluded from the</p>	<p>AL049077, Z43264, AA362903, H44830, AA347303,</p>

		<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1267 of SEQ ID NO:1625, b is an integer of 15 to 1281, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1625, and where b is greater than or equal to a + 14.</p>	<p>W23148, AA369128, Z99916</p>
1626	HOEMJ36	876856	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1341 of SEQ ID NO:1626, b is an integer of 15 to 1355, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1626, and where b is greater than or equal to a + 14.</p> <p>AA910951, AA843679, AI348072, AI125272, AI042167, AA845606, AW129714, AI927609, AA868244, AI978910, AI525551, W06825, AA843914, AA779705, AW130928, W61040, W91932, AI831445, AW247636, AA186566, AI359205, AA523378, AI186133, AI160604, AI041480, AI198816, AI378985, AI207388, AA720662, AA181832, AA928300, AA890438, AI688759, AA393736, AA151916, W73728, AI184656, AI473972, AW272617, AA719242, AA890475, AA933747, AA534300, AA987916, AA622766, AI371055, AA878593, AI811357, AI829846, AI246201, AA987453, N21142, AA191541, AI345998, AI142485, AA307417, AA393794, AA102496, AA934733, AW082787, AW362863, W96444, AI343759, AW073775, N26594, AI624204, AI075412, W73785, AA706402, AI075444, AA312077, AW370975, AI304681, AA305477, AW370958, AI339961, AA988926, AI798191, H96572, AI631255, AA916632, N21361, AA393864, AI242708, AI186143, AI344381, AI002050, AA829718, AA666025, AI301839, N31157, T51961, W96541, AI186650, AA450264, N70868, AA189020, W35262, AI335966, AA868435, AI243742, AI718683, AI285022, AW380029, AI708661, W79062, W56704, AA450265, AI203443, AA313952, H05891, AA029676,</p>

	AI924457, AI253584, AI750319, W74474, AW380015, AA541387, AI915283, AA953221, AI095790, AA687834, N63798, H72663, AA627355, N33299, W56739, N44829, H10500, AA223727, AW002227, AA961262, AW440854, N92556, C17191, AA223815, AA156119, AW263927, AW007959, AA035712, AI750318, H79841, H50961, AA703995, AA305808, AA024948, R91859, R96677, W56383, AA332390, AW440710, T28956, AA912076, N57269, N92539, W94895, R91038, H13004, AA082120, R92698, AA355945, AW337859, AA024991, AA321569, AI932893, AA459672, AA459794, AA189019, T90302, N78866, H78774, AA361890, N49784, AA305857, AA361459, AA765973, AA361675, AA352730, AA771826, H72664, N94156, AI613134, N50485, AA628033, F02479, C17291, AA063528, R56364, AA459660, W39039, AA642158, H62620, AA352976, AA628038, AA729743, AA147291, T82974, AI749422, H96696, AA352839, N87245, W23447, AA627654, AA459783, R57554, AA729543, T52041, AA143387, N39666, W24824, AA742384, W17271, H62547, AA191268, N50430, AI468860, N54292, AW382069, N70049, H79840, W39006, T25454, H62619, N28023, AA353584, T63976, AI337484, AW059803, C20551, R85599, D25569, AA353199, H78693, AA091252, T63965, R91039, N49681, AL119863, AA024971, T64044, AW366372, AI925164, AI591101, AL043152, AL120254, AL042944, AI491904, M15796, X57799, AL034410, AR009805, Y00047, X53068, X57800, J05614, D17061, X67329, D28458, M29310, D17232, AR034530, AF113690, AJ005690, AL133640, E05822, AL110296, I48978, AL137530, A65336, I08319, AF069506, A21101, AF090900, AL137558, AL133619, AR034821, I89947, Y16645, A03736, AF028823, I09499, AL050393, AF118090, AF031147, AF177401, A86558, AF067728, A76335, I32738, AL122110,

	AF159615, X59414, AL117435, S36676, AJ000937, AL137523, AF117657, AL133568, U78525, A12297, AL080146, AF176651, AF183393, AL137294, U35846, I48979, A07588, E04233, A77033, A77035, AL137254, AL117457, X80340, AL133016, AF146568, AL050138, A18788, AF114170, A57389, AL096744, AR038854, A08907, AF175903, AL122104, S82852, AL080158, AL137529, AL137292, AL137267, AF026816, U76419, AL137560, AL049347, I30339, I30334, AL023657, S77771, AL133665, E01614, E13364, AF182215, U49908, A18777, AL096751, AF065135, AL133080, A76337, X84990, AB007812, AF106657, AR068753, X72889, AF017437, AF118094, AL137478, AL117587, AF162782, A08913, AL117460, M96857, AL137533, A65340, D44497, Z97214, X72387, L04504, AF067420, AF104032, AF113019, X99257, AL080110, Z82022, AB025103, X59812, AF106697, AF026124, A08912, AL133113, AJ012755, AL137537, A15345, Y10655, AR013797, AF126247, AF145233, X66871, AL049283, AL050190, AL080159, AF087943, AL122106, AF200464, AJ003118, AL050108, AF039138, AF039137, AL096720, A08910, AL110218, I29004, A08909, AL110196, AL133557, AF090886, U73682, D16301, AL137480, S76508, AR011880, AL050208, X81464, AF113694, X87582, I33392, AF115392, AF192557, AF153205, AL137479, A70386, A08908, AL050024, X63162, AL137459, X55446, AF017152, X65873, AL133560, AF111112, AL122050, I26207, AL117416, AF151109, Z37987, AL110225, U72621, AL110280, A08911, I89931, AL137555, AL049382, AL050172, AL137554, AL117649, AF090903, Y14314, AF044323, AL110224, AL050092, AJ006417, AF102578, X53587, D83032, X66417, I89934, AB030279, I49625, AL049324, AL133070, AL137271, AL080234, AL080156, AF061981, AF090896, AL050155, AL137550, A23630,

1627	HWWHPZ02	876858	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1174 of SEQ ID NO:1627, b is an integer of 15 to 1188, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1627, and where b is greater than or equal to a + 14.</p>	<p>S78214, D55641, M19658, Y10080, AL133637, AL049339, AF097996, AF038847, AF141289, AF118092, X52128, AL110221, AL050149, S83440, AL137660, Y07905, AB029065, U88966, S75997, AB016226, AF100931, AF113677, AL117463, AF001215, AL049314, Z72491</p> <p>AW043824, AI094162, AI150332, AW152394, AI363370, AI340929, AW341579, AA904074, AI015843, AI039705, AI192155, AI338344, AI038188, AI144479, AA922221, AA804396, AA768639, H29728, AA256891, AA708611, H29729, AA902548, AA641864, AA256375, AA310759, AL038838, AL038983, AA641863, AL037727, AL038532, AI142134, AW316536, AA654177, AL038822, AL043814, AL043923, AL043845, AL040617, AL044186, AL041238, AL047012, AL041577, AL041459, AL044064, AL040294, AL041635, AL044037, AL047170, AL040463, AL040768, AL046850, AL045753, AL041752, AL045684, AL040625, AL047219, AL040052, AL043570, AL043848, AL041374, AL043627, AL041523, AL041730, AL044074, AL041602, AL043492, AL040839, AL043677, AL040472, AL043467, AL040510, AL042135, AL043538, AL047183, AL040464, AL045671, AL046442, AL040621, AL046994, AL040444, AL041133, AL039316, AL041324, AL046392, AL046914, AL040322, AL044258, AL044272, AL040119, AL041098, AL041096, AL045817, AL040148, AL045920, AL049018, AL047057, AL044199, AL044187, AL040458, AL041163, AL040576, AL041955, AL045990, AL041292, AL041358, AL040332, AL041142, AL041346, AL040529, AL041159, AL044274, AL037436, AL041168, AL040745, AL046330, AL041197, AL040128, AL040571, AL042096, AL047036, AL040342,</p>
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	AL040553, AL041186, AL039360, AL040285, AL044165, AL040091, AL040090, AL040414, AL041131, AL039744, AL044162, AL046327, AL037435, AL040149, AL040155, AL041051, AL040168, AL044201, AL037335, AL043775, AL043496, AL040253, AL040082, AL037443, AL039432, AL041227, AL045857, AL040329, AL079878, AL041296, AL037343, AA471208, AL041086, AL040193, AL037323, AW129525, AL040075, AL040263, AL040370, AL040255, AL038761, AL041233, AL041140, AL045725, AL039915, AL043612, AL041246, AL037295, AL041277, AL039338, AL041278, AL045989, AL049069, AL039643, AL079852, AL040238, AL043537, AL041210, AL046147, AL041347, AL043941, AL037341, AI028338, AL080031, AL134524, AL044125, AL037279, AL047037, AL043444, AA257137, AA629169, AL046097, AA257022, D79670, AL044529, AL045328, AA094619, AL046360, AL045994, AL042898, AL046150, T23985, AL043440, AA585439, AL045211, Z30131, T19415, N87157, Z28355, T23957, AL042712, AL038745, AA585101, T11028, AI547039, T23888, AA585453, AI541374, AI525431, AI525556, AI540967, AI546855, AI541365, AI525306, AI541523, AI541514, AI541509, D61254, AI546999, AI535639, AI557731, R29445, AI526194, AI556967, AI541508, R28735, AI546945, T41289, AI546828, AL040385, AL047163, AL079953, R29177, AI557787, AL134110, AI526073, AA585476, AA174170, AF161482, AC006530, AR062871, A20702, A43189, A43188, A20700, A98420, A98423, A98432, A98436, A98417, A98427, A84772, A84776, A84773, A84775, A84774, AR067731, AR037157, AR054109, AR067732, A58522, A91750, A86792, AJ244004, A98767, A93963, A93964, A85395, A85476, AR062872, AR062873,

	A25909, A81878, AF082186, A64973, A58524, A58523, AJ244003, E14304, I44516, E16678, I25027, I26929, I44515, I26928, I26930, I26927, X83865, D78345, AJ244007, Y16359, AR038762, E03627, M28262, A60212, A60209, A60210, A60211, E13740, I48927, I63120, AR017907, A18050, A23334, A75888, I70384, A60111, A23633, AR007512, I15717, I15718, A02712, A77094, A77095, A95051, A18053, AJ244005, I08396, I84553, I84554, I00682, A11623, A11624, E00609, A11178, E01007, I13349, A10361, I06859, A35536, A35537, A91965, A02135, A02136, A04663, A04664, I08395, AR043601, A93016, A11245, A92133, I03331, A02710, E12615, AR035193, A07700, A13392, A13393, AR031488, I13521, I52048, A27396, AR027100, I49890, I44531, I28266, I21869, A82653, E16636, I44681, A90655, A70040, A24783, A24782, A95117, I62368, AR038855, AR031566, AF149828, I01995, I08051, I18895, I60241, I60242, A20699, E00696, E00697, E03813, I66482, AR009151, I66485, I66483, I66484, I66498, I66497, I66496, AR038066, AR027099, I66487, I66486, AR064707, U94592, AR051652, AR051651, AJ230935, AR008429, I05558, AJ230902, AJ230972, A68112, A68104, AJ230951, E12584, A22738, X07299, AJ231009, I08389, Z32836, D13316, AR035975, AR035977, D50010, AR009152, I15353, AB025273, AR051957, I18302, Y09813, AJ238010, X81969, I19525, AR066494, M20328, X13697, J04205, X69804, X97869, AR035974, AR035976, AR035978, A70872, D13509, E17098, X14684, AJ231028, I66495, I66494, A22734, AR022273, X91336, AJ230867, AJ230845, A70869, I36244, A29109, A32111, AR051864, D17247, A93923, AR051865, A06631, S60422, A83642, A83643, AJ231011, I66488, I66489, I66490,

1628	HLTAZ90	876865	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1375 of SEQ ID NO:1628, b is an integer of 15 to 1389, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1628, and where b is greater than or equal to a + 14.</p>	<p>I66491, I66492, I66493, I66481, A83151, A93916, AR063812, AR028564, A24548, A24546, Y14219, A93931, I05845, X91337, AC005541, AA971815, AI032717</p> <p>AA873435, AA600839, AI768313, AI146480, AW058474, AA773760, AA902399, AI815095, W07335, AI936013, AI887319, AW247888, AI290267, AI949176, AI140850, AI383970, AA478888, AI335758, AA455467, AI131375, AA446062, AI375904, AW273478, AI569525, W92189, AI080606, AA446800, AI922678, W48604, AI669705, AI088017, AI079611, AI357729, W94886, AA778027, AI420677, AA662489, AA199802, AA199694, N99008, AA455466, W48605, AA737911, N22398, AI097343, R69048, AW079086, W81498, AA478769, AA602304, AA770587, AA568808, AI983493, AA903872, AI718164, AA577394, AA658448, AA579036, AA814776, AI687665, AI275990, AI127693, AI040179, H06586, AI188614, AI383744, AI160662, T16066, AW162694, AI209061, AI948507, AA432116, AA429907, AI571660, AA577605, AI926880, AI949479, AI991410, AW002319, W79730, AI675994, AI659734, N75810, AA999862, AA417649, AA582611, AI400342, AA749354, AA923020, AI537750, AI579976, AA953148, AI915035, N69819, AA256988, AA419605, AA133662, AI433790, AA193288, AA773001, W21280, AI470356, AI207126, AA470409, AA806422, T94567, AA074998, AI432068, AA725585, AA757124, N75636, T07950, AW265105, T07544, AI611358, AI954778, R50657, H06531, T27805, AI220764, W81497, H00562, AL120252, N80002, AA682966, AI440285, H12517, AA492209, AI784270, AA361222, AI915044, AI524835, T59434, AA035575, AA364008, DI2231, AI702267, AA482915, AI420160, AA482927, AA501348, T94257, AA641987, AA369109, AA482933, AI932950, R29196, DI2095, AA343259, AA588441,</p>
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1629	HHFUM32	876866	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 607 of SEQ ID NO:1629, b is an integer of 15 to 621, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1629, and where b is greater than or equal to a + 14.</p>	<p>T09050, AI239988, AI572155, T33940, AI917677, AA035065, AI915005, D57719, AA490946, AA635076, AA491134, AA659260, R15055, T59489, M78942, AW361295, AA534940, AW262956, AA629172, AA902888, AA736627, T09051, AA491132, AI557731, AC004081, AC007666, AC000052, AC004019, AF055664, L08069, D13388, U53922, AA446079, AA429922</p> <p>AA525015, AI097213, AI186110, AI205864, AI460279, AA454512, AW003859, AI143331, AI305240, AI337532, AI279156, AI333362, AA770652, AA483013, AA846308, AI024319, AI380066, AI184498, AI204185, AI332737, AI025452, AA701068, AW298191, AA314391, AA780879, AI204046, AA722950, AA903838, AI368078, AI073640, AA010086, AA911716, AA948332, AI188877, N45102, AI094300, W52409, AI311092, AA622052, AI302571, AI369905, AI660241, AI138619, H48026, H41034, AI749308, N76689, AI354731, N31297, AI141562, AI347212, AI191310, AI092132, AA875920, AI346333, AI344362, AI186141, AI184174, N50933, AA854247, W32499, H93326, AA740175, AA765339, AA886065, AI718470, N54609, F32533, AA229525, AA604454, AA995306, R97891, AA854498, AA688403, H48027, AI312692, N46264, AI027037, AI192124, W77745, AA629102, AA975984, W05153, N45023, R68274, H57270, AI355659, AI192244, AA722963, N22908, AA046489, AA362565, W99330, AA075564, H18704, H18336, AA483751, AA024768, AI904485, R94597, AA887933, H41035, H23703, N84980, N69892, AA311757, H18805, F36632, R26083, AA046701, AI702033, H18369, AA327843, AA299086, F33066, R68309, W52410, AA877022, AA643367, AA079015, AA339134, AA641985, H26911, H57271, W99372, R96486, AA339947, W02163, AI220631, W05365,</p>
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1630	HHFAB62	876870	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1144 of SEQ ID NO:1630, b is an integer of 15 to 1158, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1630, and where b is greater than or equal to a + 14.</p>	<p>AA772749, H93830, F26046, H58286, R94598, H28518, H23704, AA083351, AA075559, AA296237, N46263, AA352775, AA024767, F33965, AI557901, F24493, AA216428, F28514, AI750084, W72101, N98865, AI342158, R47744, AW265596, AA083549, R50391, AA083447, AA659764, AA302180, W31292, AA041272, C00512, AA709422, F18524, AL080089, D13118, X69907, X69904, X05218, D13123, L19737, M16453, T80797, T81201, H27411, R97890, N41011, N52542, N78879, N93425, N95193, W24594, AA079016, AA887623, AA216270</p>
1631	HWLWJ70	876873	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 665 of SEQ ID NO:1631, b is an integer of 15 to 679, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1631, and where b is greater than or equal to a + 14.</p>	<p>AA527360, AW051577, AA757918, AI590246, AA482382, AA417897, AA834979, T33217, AI933007, AA886393, AI242582, AA912932, AA552566, AA026889, H12586, AA770351, AI122821, Z45211, AA810545, AA089741, AA026890, AW235276, AA442516, AI081311</p>
1632	HCRPV85	876876	<p>Preferably excluded from the</p>	<p>AI138310, AA579608, AL080041, AA150112,</p>

	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4587 of SEQ ID NO:1632, b is an integer of 15 to 4601, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1632, and where b is greater than or equal to a + 14.</p>	<p>AI914754, AA310336, AW139942, AI669978, AA150453, N21199, AW337765, W60839, AA007492, AI245978, AW340469, H39087, AI857928, AW402945, AI857929, AA884547, AW044377, AA708593, H06461, AI554400, AA806848, AA292984, AA281307, D53188, AI074110, AI359733, H37969, AA911725, AA194095, AA757126, AA815284, AW166409, AI362093, AA258691, AW386068, AA614128, AI937918, AI218676, AA429422, AI361580, AA156587, AA931474, N27470, AA313613, N31349, AA936569, AA007448, W69685, D52529, AA171394, AW367949, AA150166, W47135, AA428365, D53165, AI253039, AA937690, AI752560, AA312520, AI039854, AI282901, AA884648, AI094728, AI201298, AI273365, AI346383, AI421258, AI310120, AI361451, AI285056, AA040411, AA789206, N88385, AI418521, AI973164, AA227133, N99005, AL038896, AW362878, AW403348, W24127, AL119637, AI016520, AA541481, AA309620, AA150397, AA306805, AI400189, AA284235, H51237, AA331743, AW023315, R67309, AA373361, AA156654, AA730527, D57421, AL045286, N92003, W69686, AA332449, AI368439, AA281258, AA040303, H63313, AA359717, AW362873, R74438, AA770542, H06565, AA363548, AI339537, AI023267, AA884006, D58110, AA922473, W60840, D58261, AI346133, AA722328, AW207758, AI753879, H06510, AA853720, AA332495, AA999738, AA331529, AW151651, D52528, AW391062, AA330258, Z45721, AA626164, AW390953, AA484242, AA382542, AW090257, D79754, AA227234, AA355615, D56466, AA313395, AA382088, AA169821, AI873035, R74343, AA354337, D53067, D53164, AW386086, AI749497, AW021983, H68127, AI149688, AA365933, H11545, R26679, R36441, AA705035, AI799252, AW403752, T30044, T85823, AA359673, R57470, R25867, Z42383, D53068, N71806, D53095, C03662,</p>
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1633	HCE3V58	876878	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 362 of SEQ ID NO:1633, b is an integer of 15 to 376, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1633, and where b is greater than or equal to a + 14.</p>	AA263144, AA111835, D81554, T83223, AA910604, AI056722, N21394, AA354104, AW270594, AI571557, N63858, AA503313, F23396, AI973191, AI590666, AA290658, R60888, AA382087, AA677495, AA290659, AL037148, X74262, X71810, U35141, AF097750, AE000658, U85195, AC005277, AA045875, AA398311, AA703653, AA853719 AW301835, AI308020, AI860966, AA134268, AA878213, AA694197, AA088689, AA133904, AI285166, AA133903, AA302740, F26419, AA582580, F35821, H90906
1634	HKGBE11	876882	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3629 of SEQ ID NO:1634, b is an integer of 15 to 3643, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1634, and where b is greater than or equal to a + 14.</p>	AI524051, AW007724, AI609303, AI560001, AI401617, AI936772, AI735659, AI249001, AW021551, AI247535, AA889466, AI770052, AA856594, AI923848, AI393945, AI963008, AW007900, AI802150, AW246695, AI589917, AI186661, AI680189, AW058621, AW081918, AW248728, AI160059, AA128006, AA812522, AI191795, AI128436, AI274108, AA909840, AA405642, H99041, AI015928, AA931655, AI262534, AW026999, AI423370, AA453200, AA131241, AA579953, AA702093, AI026873, AI161187, AA455704, AA455317, AI373875, AI359209, AW020484, AI204219, AI475739, AI125919, AI306480, AI123115, AI075685, AI183377, AI093279, AW137484, AA915929, AA745983, AW168028, AI191687, AI659743, AI346563, AI923367, AI472034, AI370998, AW169284,

	AI690264, AI356799, AI298090, AA847328, AI143203, AI573004, AA526151, AA701656, AL036355, AA398429, AA781758, AI248617, AA972778, AL120931, AA813433, AW364708, AI625940, AA975860, AI051123, H18709, AI624093, AW005429, N68529, AI299217, AI149399, AA988712, AI355692, AA886616, N90938, AW373562, AA687849, AI583218, AI566456, AI167133, H27061, AI355703, AA757226, AA781558, AI086933, AI097546, AI811692, AI375753, N91144, AI342620, AA126641, AI421652, AW131426, W32307, N33217, AA888625, W04345, AI348671, W17386, AA804381, AA305682, AW016631, AA291227, W68759, AI004166, AA427526, AA454983, AA479068, AI298478, AA732854, AI080704, W68454, AI084772, AW084472, AA479223, N27564, AI184963, AA505251, AI022978, D53877, AA126497, D52932, AA828985, AW193312, AI073734, AI245609, AA454161, AI589126, AI690281, N92279, AA745905, AW057830, AA467899, AA938231, AI187073, AA130568, AA610387, AA128029, AA761970, AI890992, AA847408, N47754, N41931, AI750050, AA456530, AA971614, AF139790, AI435647, AA837736, AI017762, AA828994, AA618297, AA614659, AA788753, AA601557, AI682609, AA454984, AW168929, AA678000, AA708844, AA151101, AW152083, AA143003, W42712, N66889, AI298694, W17235, AI348194, H97544, AA036731, AI902984, H18598, N89744, AI435894, R69930, AA535636, D62527, AA514269, AI720059, AI433476, AI248821, AI245176, AA403052, AI263846, AA150090, W17187, W16652, AA962557, AA031722, AA089961, AI287545, T75133, R75976, AA968981, AI245198, AI814870, AA894619, D54851, AA447055, AA701210, AA578436, AA150159, AA467843, D53769, N22090, D52639, T28569, AA889910, D56802, AI890986, C01613, H88627,

1635	HRAEG13	876886	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4037 of SEQ ID NO:1635, b is an integer of 15 to 4051, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1635, and where b is greater than or equal to a + 14.</p>	<p>AI267864, H46858, AI075972, AI242237, AI185100, AI272966, H39601, H88628, AA968979, W19238, AI784586, R07700, H03189, AA211540, AA131165, AC004520, M29065, M29064, AF073993, AF192348, D28877, U09123, L02954, L02955, U09122, AJ009300, U09121, A74625, A74773, AF169290, AF211856, R10578, R10579, R12625, R20526, R22887, R23576, R25216, R27302, R32649, R33333, R33334, R52479, R20526, R66241, R69882, R76807, H03988, H04178, N34507, N40385, N74179, N74343, N75875, N93493, W00725, W02101, W04813, W04852, W05055, W17019, W20426, W24457, W25432, W42905, W81443, N90151, AA036938, AA167390, AA483158, AA632646, AA765452, AA808476, AA888709, AA935276, C02214, C04584, R29188, AA089571, AA092059, AA211492, AA216333, Z20376, AA703571, AA844237, AA889282, AI032462, AI051314, AI084281, D20533, T24609, F01310, F12801, F11075</p> <p>AL079429, AL079428, AI962210, AW409971, AW409972, AW362305, AW410672, AI924517, AA406225, AW025356, AA405914, AI951876, AW410671, AI523918, AI890911, AI923197, AW206660, AI569743, N94878, N99556, AW301065, AA405354, AI936512, AW206646, AI872449, AW193338, N63552, AI207878, H29821, AA405693, AI184142, AI287700, AI039152, AA764984, AI347352, AW387060, AW386988, AW387093, AI081389, AA350220, AI148131, AA783037, AI243796, AI277386, AW387033, H69679, AA985309, AI635584, AI372628, AI372627, AA405353, AW408699, AA777168, AA350036, R56710, AW207334, N40073, AA781626, F11487, AA654125, R94204, R56864, R55500, T66335, H92624, AA350276, R81346, AL121276, AA350037, F09706, AI298408, AI873379, R51360, T87412, M78454, AI287710, F12065, H50110, AA351242, N22306, F09146,</p>
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1636	HLIBZ07	876888	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1228 of SEQ ID NO:1636, b is an integer of 15 to 1242, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1636, and where b is greater than or equal to a + 14.</p>	AA234354, N26102, N55429, AL120770, AW387043, AA405389, H50154, H43762, AW387110, H72992, AA227365, R79738, R79737, H44600, H70095, R50621, AI184049, R45951, H29909, T66284, AA744978, N71548, H72991, AA368705, AA936885, AI739624, R55499, AW007986, T83200, AI863755, R50454, R50527, T36310, R50455, T85587, T77076, AA936368, H43432, AA464051, T87308, T07160, T78532, AA321966, AW268156, T85586, H43431, F26601, N40316, AI832126, AI372626, AW376436, N54476, R81601, R51465, R94300, AW367002, AA324819, N76802, AW073570, AI654772, AI473579, AA555237, AW102939, T77381, AA548001, AI985527, N76587, F35806, H92406, AW366992, AA302603, AW367067, AI937249, AW389336, AA862606, AB032950, AF128625, AF021936 AA946784, AW375919, AA527581, AA904758, AA209387, AA563949, AI833239, AA740268, AA527668, AW372169, AA948567, AA894539, AI745625, AA468774, AA725505, AW376020, AA164354, AA946619, AI348033, AA594622, AA453342, AW160477, AA937588, AA862503, AW375573, AI189061, AA988737, AW162844, AA588618, AW363501, AW375476, AA677897, AI310309, AI123763, H59915, AW161438, AW160982, AW160317, AI907434, AW780152, AW363508, AA526226, AW295010, AW176047, AI472327, T65562, AI005477, AA349978, AA928712, T08552, AA610643, AA307984, AA385290, AI905918, AA211030, AA349672, T65630, F12026, AA434132, AW365033, AA338674, AA453217, AA384272, AA339261, AA367135, T03912, R78158, AA367413, AA357314, H27129, R91610, AI766762, D51350, AA308647, D55070, AI214104, AW176070, R96738, AA343589, T03852, AA384370, AW264753, AW376759, AW376799, AA340742, AW363574, AW372990, AL048628,
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1637	HTPFB46	876890	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2110 of SEQ ID NO:1637, b is an integer of 15 to 2124, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1637, and where b is greater than or equal to a + 14.</p>	<p>AW376653, AA362098, D54438, AI905702, AA300134, AA747175, F09672, AA384504, AA233381, AI870184, T79091, AA367166, T84398, AA451673, H25082, R45919, S75311, AR037563, L33930, D87667, X69397, Y14692</p> <p>AI718712, AW444886, AI983059, AI135147, AI085966, W07327, AI492267, AI360984, AA564235, AA573268, AA406085, AI678761, AA577144, AI091819, AA297803, AI289839, AA037033, AA804950, AA533437, AI242554, AI223449, AA410390, AA644395, AI216720, AW005660, R77919, AA878891, AI468125, N51728, R32385, N25411, AA256925, AI811527, AI142611, AA954723, AA256501, AA317506, W52143, AA421853, AI623878, AA932178, R78020, AI089059, R32384, AI242914, T81104, F34121, AI468126, F25882, N75820, AI335792, F35752, F18999, AI984724, AW305237, AI345730, AW268284, AW166690, AI349242, AW086410, AW272065, AI310836, AI345115, AI223675, AI308339, AI312490, AI252159, AI345249, AI307405, AI580578, AI252423, AI252373, AI349681, AI252335, AI250483, AI252345, AI583501, AI583500, AW302935, AI583889, AW303168, AI348995, AI349742, AI309420, AW269095, AI336494, AI335439, AI349287, AI306795, AW274358, AI349945, AI252286, A58884, L40823, U06846, AR051950, L40817, L44140, X87196, X74606, X90393</p>
1638	HDPSS23	876892	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1421 of SEQ ID NO:1638, b is an integer of 15 to 1435, where both a and b</p>	<p>AI129800, AW027959, AI927949, H92980, AI650270, AI708393, AI138076, AA524072, AI831594, AA749139, AI926721, AI399955, AI302816, AA262795, AI862160, AI093249, AA828301, AI625105, AA904444, AA772552, AI816834, AI084565, AA314418, N30447, AI242763, AI810709, AI653617, AI129801, AA443839, AI289975, AA281653, N25206, AI758575, AA026905, AA737455,</p>

		correspond to the positions of nucleotide residues shown in SEQ ID NO:1638, and where b is greater than or equal to a + 14.	AI474418, AI619613, AA039864, AW000990, AA039860, AA291708, H86861, AI032004, AA452814, AW084297, R97735, AI640264, AA336497, AW080103, AA026904, AI052445, H73499, N54837, R92739, H73311, AA040230, AI311105, C21440, AA338774, H94209, N69415, N91446, R76435, AW029069, R96804, AA281785, AA680378, T18545, AA338773, T10789, AA610255, AA568204, AA570740, AA483606, T47138, AW151018, AI355246, AI445373, AI915081, AA219349, AA664126, AA582746, AW275432, AA558404, AA837771, AA214453, AA857812, T94394, AA482792, AI249688, AI567391, AA630854, AA683069, R67701, AA515939, AA425924, R77139, AW069227, AA714073, AA297006, AI285493, AI298079, R79929, F35097, AI634377, AI791659, AW104163, AI671077, AL048060, AA809186, AA831408, F35684, AW084967, AA523695, AI962030, AA846923, AA533040, F24745, AI889579, AA102737, AI185394, AA491767, N51636, AI538236, AA558366, AI880761, AI735092, AA376358, AW272815, F23338, F31066, F37059, AA612578, AA668587, R79255, AA196552, R93919, AW075729, AI433131, T71936, AW419389, AA632556, AI634187, AA302978, AI457313, AI620992, AI358542, AA769141, AA342238, AA583386, AI312090, AI049630, U91323, AC004686, AL080245, AL035587, AC002073, Z81357, AC007993, AP000113, AP000045, AL049748, AC010582, AC005778, AC004797, AL021939, AC005702, Z82901, AC007774, AP000030, AL008718, AP000250, AC004232, AC004079, AC006344, AC005759, AC002365, AC007193, Y07848, AC004598, AL096701, AC002565, AC005799, Z73900, AC007390, AL031721, Z93016, AL118497, AC006501, AC007566, AC005740, AF067844, AC005011, AC006077, AC000064, AP000133, AP000211, AC004859, AC006333, AC007179, AC000025, AL049776,
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	AC005527, AC003688, AP000346, AC005412, AL050318, AC005225, Z84488, AL020995, AL031186, AC002381, AC005057, AC005231, AF045555, AP000300, D88270, AC004485, AC005207, U91326, AC007917, AC000003, AC002544, AC004816, U03115, AC004253, AL035249, AL078593, AL049869, I34294, AC006530, AC005668, AF128525, AC005695, AC005529, AL034417, AC005291, AL031005, AC005184, AC005072, AL023879, AP000689, AC005519, AC004551, Z83838, AL031295, AC003029, AL035458, AC003690, AC003957, AF030876, AC004655, AC007425, AC004964, AL022721, AL096791, AP000547, AL022318, AP000255, Z82976, AL049576, AF196972, AC005924, Z99716, AC002395, AC004383, AC004881, AC002288, AC004522, AC004828, AF031078, AP001039, AL031311, AC005015, AL023807, AL049553, U62293, AP000502, AC005081, AC007055, AC007537, AC007738, AC002350, AC002504, AL135879, AL121790, AF207550, AC004386, AC000353, AL031230, AC005071, AC002115, AC005756, AC002072, AL023575, U66060, AP000213, AP000345, AC007227, AC007075, AL031587, AF184110, AC005409, AL133448, AL080243, U91319, AC006960, AL034420, AP000135, AL121652, AC005480, AC006571, AC006312, AC000035, AC007565, AC005726, AC004745, AC004865, AC002551, AC005180, AL031685, AL021920, AL024498, AC004129, AC007563, AP000031, Y10196, AC005609, AC002418, AC007637, U51244, AC004815, AF001548, AC005696, AL135744, Z83847, Z68324, AC004878, AL049729, AL034400, AC005632, AC008012, AC004491, AC008372, AL031297, AC004777, AL031293, AC002984, AL133163, Z97183, AC003692, AC007057, AL024474, AC006961, AL135959, AL035455, AC000111, AC004896, AC008975, Z97056, L44140,

1639	HCEIC29	876901	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1617 of SEQ ID NO:1639, b is an integer of 15 to 1631, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1639, and where b is greater than or equal to a + 14.</p>	AL078644, Z94802, AF064861, AC006121, Z98051, AL049610, AF102137, AL008582, AP000555, AC009247, AL049843, AC007899, AC004974, AC007172, AC006120, AC008149, AC004780, AP000355, AL049643, U78027, AC006276, AL035450, AC005089, Z93784, AC005399, AC006430, AC007114, AC002550, AC004587, AL022316, AA261881 AA099268, AI676066, AA872993, AI916603, AI686512, AI862396, AW134699, AI768494, AI656235, AI760422, AW340874, AI760767, AA456537, AI950211, AI365227, AA455250, AW019939, AI560709, AI521183, AW269381, AI343443, AW242591, AI862402, AW182833, AA906566, AI825167, AA910881, AI355516, T62487, T62632, H22865, AI470602, H24258, AI910667, T10397, AA319888, AA084251, AA465631, AA084250, T48979, R22512, R22511, R62215, R70206, R74308, H02508, R85869, R92578, R94703, R94783, R99284, H53551, H53550, H57860, H66191, H66190, H68304, H68303, H68633, H68632, H73905, H74097, N29973, N58152, N59546, N78287, N93155, W03816, W39117, W39754, W45221, W72425, W76578, N90187, AA010750, AA011178, AA035374, AA035090, AA044020, AA044195, AA099403, AA099464, AA131818, AA132001, AA181697, AA255734, AA279493, AA459458, AA465677, AA513468, AA610670, AA661647, AA807978, AA931089, AA932324, AA938458, AA947789, AA216163, AA477227, AA477226, AA709315, AA716569, AA774617, AI024245, AI024575, D25921, T16050, Z42876, F02340, AA699770, AI264621, AI268001, AI270489, AI432949, AI419091, AI475199, AI129103, AI139707, AI200420, AI205134 AA629925, AI557066, H72652
1640	HE9OY91	876903	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>	

1641	HFKFN66	876904	<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 839 of SEQ ID NO:1640, b is an integer of 15 to 853, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1640, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 674 of SEQ ID NO:1641, b is an integer of 15 to 688, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1641, and where b is greater than or equal to a + 14.</p>	AL031433	
1642	HWMFQ16	876905	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1902 of SEQ ID NO:1642, b is an integer of 15 to 1916, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1642, and where b is greater than or equal to a + 14.</p>	AA775776, AI041206, AI884423, AA608631, AA307942, AA602534, AA477709, AA604331, AA610041, AA237053, AI874354, AI922651, AA455372, AA478920, AI861817, AI174744, AA639758, AI803985, AA307739, AI217011, AA242978, AI420956, AI082010, AA290814, N35525, AA397578, W04164, AI740453, H18746, AA457124, AI369854, AW402584, AA250883, AI362747, AW401485, N63084, AI826090, AA969826, AA418085, AI301135, N42604, N32932, AA464471, N44904, AI206819, AA206545, AI264316, AA205363, AA627399, AA908393, AA206909, AA399551, AA386030, AA205036, W07733, AA151195, AA292402, AA723847, AA151196, R68884, AI217962, N62289, R60986, AA019523, AI307617, AA535112, H18659,	

			<p>AA782617, AW401677, AI923522, AA148955, AA136448, R61653, AA369942, H45205, AI311834, AW383689, N70126, H78459, AW169009, N77580, AI695617, AW383687, AA383122, T96825, AW383681, AA477710, AW188902, AA148954, AW383686, T36291, AI826948, AI755216, AA628518, AI249697, AA236854, AI064883, AA977383, T35725, AA761981, AA478800, AA588591, AW275155, AA206781, AA610557, AA765404, AA299218, AI274603, AA484614, AA252156, AA394239, N89897, AA418016, AI289322, N35239, T96813, T98004, Z39105, AI347692, AA401922, R68786, AI421701, AA300711, AI984054, AI307367, AI869880, AW003896, AI357580, AI097540, H78257, AA773528, AI933853, N26474, W19451, T96826, AA937255, AA494127, AA456012, AA622190, AA531018, AW264334, AA296375, AW340846, R39778, AW368305, T98082, AW406763, AW389979, T32639, AW389990, AA773673, AA304962, AA233500, AW383537, R58298, C15957, N78713, AA019294, D78788, AW389995, AA402093, D31588, AW366573, AA095078, N87188, N86592, N88113, N88337, N85682, AF078859, AF078868, AL021878, AF090946, U21721, AJ243486</p>
1643	HCRBB01	876909	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1330 of SEQ ID NO:1643, b is an integer of 15 to 1344, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1643, and where b is greater than or equal to a + 14.</p>

	AI804207, AI274877, AI654469, AA987320, AW243847, AA555069, AA860461, AI689372, AA741520, AI937827, AI003581, AI831369, AI281145, AI871203, AI281294, AA855149, AI168130, AW377974, AI084421, AI092091, AI833225, AA505597, AI336527, AA554687, AI167764, AW088401, AW104699, AI150063, AL047161, AI798382, AW083700, AI038771, AW020827, AA928652, AI031884, AA826396, AA492267, AI625287, AI022580, AW270586, AI183695, AI026083, AA508597, AI080205, AI262884, AI073697, AI354660, AA226127, W78208, AA640721, AW149240, AA228005, AA759055, AA992173, AW150128, AA908342, AA554425, AI276333, W74125, AA034485, AA635275, AA639307, AA412053, AA742571, AA303334, AW166455, AA903876, AA173331, AA640905, AI963101, AA602023, AA378134, AW079690, AI934122, AA527819, AW368030, AW081647, AA531295, AA922080, AI050907, AI873602, AA173437, AI273804, AI589932, AI918522, AA916057, AA826837, AA235239, AW089108, AI922253, AI873976, AI885463, AA216394, AA508227, AA890672, AI572298, AA382418, AA341151, AW105574, AI281853, AI886217, AI535908, AA337736, AA837555, AI933527, AA299593, AA301629, AA654205, AI633050, AI553701, AA218783, AA426414, AA366375, AA173738, AI572371, T83429, AA215892, AA385436, W20026, AI684322, AW367106, AW377982, AA146684, T05849, AA828869, N90536, W32260, N93484, AA173705, AI092389, AA650299, D56517, T27681, AA552197, AA225725, AA235238, AI952204, AI720878, AW176624, AW367125, AA146683, AI161032, AA226022, H88875, H88876, AA523823, AA302252, AA301829, W21502, W70311, AA311804, AA729966,

1644	HSAAN15	876912	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1095 of SEQ ID NO:1644, b is an integer of 15 to 1109, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1644, and where b is greater than or equal to a + 14.</p>	<p>AI273789, AA096200, AW377515, AA729962, D20952, AI811103, T84076, X60111, AR016441, I13744, M38690, D10726, AC006057, L35275, M81720, L08115, D30786, AR016440, E05732, X76489, L08125, L08118, U15792, S60490, L08119, L08120, L08122, L08123, L08124, L08121, S60489, S60462</p> <p>AW295760, AA643028, AI858075, W22593, AI682269, AI819607, AA910344, AA573333, AW406408, AI741854, AI088151, AA481497, AW021995, AA687410, AA826812, H63145, H08408, W07228, AA765739, AA521057, R53520, AA362594, AI584029, AA689386, AA732248, AA970100, AI004471, R44238, AI811208, R53519, AA373512, R49374, H17459, R44200, AA481183, AW207413, AI075435, N66439, AB029003</p>
1645	HTEKS27	876913	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2159 of SEQ ID NO:1645, b is an integer of 15 to 2173, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1645, and where b is greater than or equal to a + 14.</p>	<p>AA758002, AI657156, AI375103, AW021134, AW150836, AI684065, AA678409, AI694321, R17458, N62359, AI655208, AI702778, AI701838, AW043913, AA782285, R54239, AA436083, R59807, AI205974, N79126, AA112078, R35463, L13827, L13824, L13825, R59697, R51845, AI479241, R39382, AA083911, AI635429, L13826, R38307, AW393336, R13143, A61243, L23208, AR051320, AR051322, L30110, L23311, AR051321, L30109, A61247</p>
1646	HWMBAI 0	876920	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1380 of</p>	<p>AI749171, AI660550, AA677676, AA464420, AA284905, AA718994, AI141193, AA481894, AI078424, AA481977, AA703408, AI276556, AI017050, AA502348, AA936362, AA936704, AW131471, F36806, AW273475, AI261777, AI218960, AI218966, AI744229, AI248232, AA452839,</p>

1647	HCQB058	876921	SEQ ID NO:1646, b is an integer of 15 to 1394, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1646, and where b is greater than or equal to a + 14.	AI277984, AA053718, AI150864, AI140517, AI129769, AI160406, AW152129, AW000750, AI248566, AI805790, AI826304, AI086599, AA020812, AA018986, AA054250, AA019875, AW242786, AI903707, F22534, AI240050, T41072, W96529, AW069782, W68326, AA053858, H37782, AA055112, H83990, AI765563, F31495, AA020811, AI244397, H37923, AA013192, T51835, R50369, AW339481, AI903705, AW194148, AA019902, W68142, AW298469, AW003689, AI860462, AA019913, AW139654, AA383551, AA384419, AA883222, H41086, AI420423, AA021054, H86062, AI735754, R80952, W92479, AA535061, F31376, T40204, C04332, AA019941, AA464476, AW050973, AI560455, AI470969, T51881, AI695746, AA284774, AA855078, AA013427, H38276, W92489, AA412431, AA844626, AW074589, AA919166, H86397, AA906632, F36956, AA018714, AA021006, AA457128, W68469, H83989, AA015696, AW050422, AA402869, AA015660, AA464421, AA454730, AA015659, AA454780, T28267, AA018985, AA018750, AC006449
			Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 711 of SEQ ID NO:1647, b is an integer of 15 to 725, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1647, and where b is greater than or equal to a + 14.	AI803478, AA578800, AI760557, AA569728, AI803206, AI199737, AI524625, AA825640, AA937979, AI436327, H83996, AA879427, AW205011, AI284171, AA262130
1648	HWLGQ64	876923	Preferably excluded from the present invention are one or more polynucleotides comprising a	AI743526, AA535976, AA534299, AI245191, AA917952, AI360198, AA189088, AI476640, AI750101, AI151214, AI219288, AI189990,

1649	HCQCV14	876926	<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1579 of SEQ ID NO:1648, b is an integer of 15 to 1593, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1648, and where b is greater than or equal to a + 14.</p>	<p>AI127112, AI582665, AI050781, R80366, AA706856, AI581641, AA693998, H01950, AW016083, AW292149, AA915966, AI219588, R07874, R68737, AA531303, AI192934, AI149588, H02159, R78817, T52702, R73741, H45133, R69845, AI832515, R21520, R78816, T46918, R68019, AW025113, R68683, H45436, R80252, R35081, R69003, T52701, AA724770, R80206, AI521622, AW272700, R12585, R80309, R79313, H04450, R78008, AI222696, R79314, R69002, R07933, R69844, R21622, R23749, AA873780, W95082, R35080, T46932, R70944, AW029093, R68018, AI619788, AI582092, T49292, R09945, T46933, AI337719, AA233721, R23802, AA378781, AA917397, AA923057, T49293, AW361573, AI241836, AI261408, U26726, U14631, AF126744, AF126745, U23835, U14128, AF074706, U22424, U27318, S83516, S80133, U27317, S83532 AP000529, AP000528</p>
1650	HCROO59	876934	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 558 of SEQ ID NO:1649, b is an integer of 15 to 572, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1649, and where b is greater than or equal to a + 14.</p>	<p>AA376902</p>

1651	HCRPN27	876936	<p>15 to 405, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1650, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 981 of SEQ ID NO:1651, b is an integer of 15 to 995, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1651, and where b is greater than or equal to a + 14.</p>	AA457220, AA354909, AA040828, AI688798
1652	HCRPN34	876938	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 622 of SEQ ID NO:1652, b is an integer of 15 to 636, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1652, and where b is greater than or equal to a + 14.</p>	<p>AI634562, AA129701, AA129323, AA129745, AI269483, AI952719, AI656261, AI239764, AI678885, AI873730, N48153, AA904475, AA653518, AI538894, R43961, AI287295, W68609, AI114476, AA973355, AI866872, AA133249, AI681503, AA133292, AI690203, AW271391, D29021, AI186074, AA757303, AA742226, AA737777, D29578, AI825401, AI934240, AA587412, AW051055, AW020046, W68807, D83781</p>
1653	HFKFH50	876940	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1241 of SEQ ID NO:1653, b is an integer of</p>	<p>AA927698, AI300925, AW009795, AA402380, AI830852, AA430318, AI493302, AI142868, AI037989, AI423267, W52884, AA907276, AI333045, AA628712, AA988209, AI363130, AA987992, AA578507, AI298580, AA639466, AA402235, AI052201, AI073629, AA458463, AA564499, N78968, AA534799, AW083734, AA442975, AI074925,</p>

1654	HCRQG66	876941	<p>15 to 1255, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1653, and where b is greater than or equal to a + 14.</p>	AA400276, AA053124, C04884, AA775515, W60092, AA425157, R83528, AA401316, AA676435, D51268, AA359764, H27189, C01185, AA402234, H27190, R37964, W39595, T27801, D55114, R45640, AA146682, AA485712, AI971664, D52799, AA347823, AA485845, AI079236, AW445076, AW444515, AA031677, AA031678, W17355, AA146681, AI739376, AA053511, AA343828, AA035266, AI648529, AI867052, AC004634, AR042382, L17032, L36027, L05489, M93012, X89728, Y15731, AR042385, X67295, L17029, L17030 AW392670, AA581171, Z99396, U46347, AW384394, AW363220, AL119484, AL043003, AL119443, AL119497, AL119444, AW372827, AL119457, AL119319, AL119324, AL119439, AL119483, AL119391, AL119522, U46351, AL119363, AL119355, AL119335, AL119418, U46341, AL036418, AL038837, AL119396, AL119341, U46350, AL134132, U46349, AL037051, AL043147, AL036725, AA631969, AL119496, AL134530, AL134519, AL037205, AL036858, AL036924, AL134531, AL119401, AL134527, AL134528, U46346, AL039074, AL042614, AL134533, AL119399, AL042984, AL042965, AL042975, AL042542, AL042551, AL134538, U46345, AL042544, AL042989, AL043019, AL134542, AL037094, AL038509, AL043029, AL036196, AL042450, AL037085, AL037082, AL037077, AL037526, AL036767, AL037639, AL036190, AL119464, AL038520, AL036268, AL036998, AL036733, AL037027, AL037615, AL036191, AR066494, AR060234, A81671, AR023813, AR064707, AB026436, AR054110, AR069079 AA330056, AA236014, Z98049, AF149770, AC004801
1655	HCROW80	876942	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 504 of SEQ ID NO:1654, b is an integer of 15 to 518, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1654, and where b is greater than or equal to a + 14.</p>	
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	

1656	HLQER45	876943	<p>the general formula of a-b, where a is any integer between 1 to 779 of SEQ ID NO:1655, b is an integer of 15 to 793, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1655, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1048 of SEQ ID NO:1656, b is an integer of 15 to 1062, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1656, and where b is greater than or equal to a + 14.</p>	<p>AI626059, AI626106, AA826765, AI040137, AA643166, AA700884, AA548726, AW361733, AI424257, AI860448, AA580441, AI985034, AI720331, AI720332, AI459935, AW383179, AA308449, AW383230, AW383291, AI304515, AW383110, AW383173, AI084026, AI801735, AA135152, AA588817, AA588576, AW383112, AW383292, AI829153, AW383143, AW016001, AI802779, AW361734, AA129139, AW383175, AI475415, AA834407, AI247812, AI282992, AW376286, AW392915, AA502781, AA053766, AA973594, AW238610, AI860189, AW084925, AA344804, AW363161, AA129138, AW004060, AW363048, AA053663, AI638684, AW024090, AI694258, AA159581, AA345424, AW363163, T72477, AA933684, AA553869, T72849, AA513679, AW352403, AW365132, AW379947, AW363141, AA135289, T70578, AW363162, AW084865, AI680270, X53463, X68314, X91863, X91864, E02175, U62658, D16913, AF099176, AL080126, L24896, AL137292, M30514, AF161699, Y10823, L13297, AL110224, A07588, AR068751, AL117416, AR038969, I17767, X54971, E02914, Y10655, AF061795, AF151685, AL050092, AL137665, AL110280, S63521, AL137548, I89947, I48978, A08913, U57352, I89931, AL080127, S77771, A08912, A08910, A08911, I49625, A08909, AF090943, AF026030, I03321, A03736, AR038854, A18777, A08907, A08908, AL137461, AF017152,</p>
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			A07647, U62966, S76508, I89934, U00763, I09360, A90832, AF016271, AL137267, AL050280, AF159148, AF061943, AF008439, I18355, I34392, AL080162, AL137550, AB007812, AJ001838, AF117959, X76228, AF118064, AL050024, X70685, AF118090, AF141289, AL117583, U87620, U49434, AL137658, AL133568, AL117435, AL049464, AF017437, AR054987, E08631, AL049452, X63410, S75997, S36676, U53505, I52013, AF120268, E15324, AL137558, L31396, U68387, AL137656, AF004162, U80742, L31397, I00734, AF113694, AL133558, AF069506, Y09972, E00617, E00717, E00778, X96540, I29004, X66417, I89944, A70386, U75932, AL133054, A47363, AL050146, AJ012582, AL137521, AF114168, AF145233, AL049339, AL049300, AF113676, AL136842, A08916, AF026816, AF028823, AR034830, I96214, AF036941, AF055917, AF115392, U57715, AJ238278, AF026124, AF158248, AL133637, AF175903, AL133098, AL133557, AL122093, X62773, AF031147, AL049465, AL137276, X97332, AL110171, A92311, AF113019, AL137283, U55017, U92068, AF051325, AF176651, AJ242859, X67688, AL080158, AF205861, AL110225, Y14634, AL117394, A52563, AF106934, AF119358, U91329, AF057300, AF057299, AF115410, AL035458, AL110159, AR020905, AF113690, AF100931, Y10080, AF022813, AL137298, X60786, Y11254, AL049314, E12580, X52128, U86379, AF126488, E01314, Z37987, AL117457, AL050116, AL133016, X99717, AF199027, AF106657, E01614, E13364, AJ012755, M92439, U51587, U01145, AF091084, AL050277, AB026995, AF118070, E12579, X06146, E15582, U77351, S82852, AL137554, AL117585, AL122098, AF000301, AL133062, AL080140, AA523439, AI652347 H72650, AA486265, R36338
1657	HWADQ26	876944	Preferably excluded from the present invention are one or more

1658	HLJB174	876945	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 598 of SEQ ID NO:1657, b is an integer of 15 to 612, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1657, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 507 of SEQ ID NO:1658, b is an integer of 15 to 521, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1658, and where b is greater than or equal to a + 14.</p>	<p>AI089472, AI201678, AA121121, AI225034, AA040061, AA026978, AW074127, AA588232, R75602, AI381304, AW316739, H96548, AA503627, AI049774, AI560029, AA860916, AI969449, N47791, AI130983, AI139753, T17035, W35381, AA161140, AA398755, Z40924, AI623471, H96500, C02374, AL080013, R48316, R75672, W32995, AI247236, R59185, R40930, AI080393, T32336, AL119457, AL119399, AL119511, AL042544, AL119324, AL043152, AL042382, AL043168, AA503612, AL079794, AI927233, AI538885, AI590686, AI679179, AI431323, AI537837, AI619691, AW029186, AA848053, AI446628, AI824748, AI360195, AI610362, AI679550, AL037081, AI625464, AW150308, AL042866, AI952145, AI476620, AI288285, AI433590, AI613471, AI620868, AI631977, AI583578, AI673785, AI365256, AI524654, AI636309, AI860817, AI472536, AI874243, AI553645, AI802240, AI473652, AW075305, AW103878, AI284515, AW087199, AI500061, AW051088, AI291973, AI828795, AL041928, AW268122, AI571868, AI624529, AI890509, AI867068, AI802542, AI433157, AI648567, AI652162, AI690946, AI554821, AW151136, AW084065, AI539771, AI922561, AI432644, AI584140, AI686817, AI537677,</p>
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	AI494201, AI627909, AI500659, AW089006, AI493559, AI866465, AI459322, AI815232, AI832245, AI801325, AI682891, AI500523, AI538850, AI887775, AI582932, AI872423, AI590043, AI923989, AI284517, AI500706, AI445237, AI491776, AI289791, AW151138, AI678446, AI889189, AI521560, AI500662, AI539800, AI582912, AW172723, AI284509, AL079741, AI889168, AI440263, AW088899, AI866573, AI633493, AI434256, AI866469, AI434242, AI805769, AI554344, AI888661, AI500714, AI284513, AI888118, AI873638, AI285439, AI538342, AI859991, AI436429, AW089275, AI889147, AI623736, AI355779, AI371228, AI581033, AI491710, AI431307, AI440252, AI866786, AW151451, AI610557, AI860003, AI431316, AI242736, AI376376, AI828574, AI887499, AW151979, AI537187, AI539781, AI094489, AI076761, AI539707, AI702065, AI866608, AI963846, AI885949, AI569309, AI633419, AW089557, AI559957, AI285419, AI521571, AI469775, AI866581, AI865320, AI860783, AI567953, AI815150, AW183130, AI446495, AI570966, AI537190, AW193139, AI056694, AW103398, AI355017, AI886594, AI364639, AI610115, AW150457, AW085786, AI636788, AW129230, AW080374, AI300354, AW080379, AI872722, AI567582, AL039456, AW088903, AI610402, AI370812, AI910464, AI963019, AI624693, AL046052, AW162194, AI919593, AL047422, AI440238, AI567971, AI269580, AI539153, AW081383, AI627893, AW080298, AI345477, AI683497, AI500504, AI583065, AI933992, AI582461, H42557, AL117568, Z95126, U77594, Y11587, AB026436, AF090901, AF115392, U49434, AF058921, L10353,

	I03321, AR034821, AL137268, AL137712, AL137658, I09499, AL133049, AL133067, I89947, S83440, E12747, AL137429, AF107847, AL122049, E07108, U78525, AF119337, AF199027, AL110222, AF114170, A18777, I48978, U96683, AF047716, Y14314, AL137550, AL133081, M27260, I66342, X72889, U92992, AL049452, AL122050, AL122100, U36585, AL137463, A21103, AL122106, AL080140, AF065135, AR060234, AL080139, AL137558, A08913, AR038854, AR066494, X62580, Z72491, AF114818, AL133072, A08912, AL137480, A08910, AL137526, I89931, A08909, AL133070, I33392, U42031, AL110221, AL137256, S77771, AF032666, AF078844, AL050015, I49625, A08908, AF031147, AF200464, X72387, AL133619, AL133665, S76508, AL080060, E03348, AF017437, AL133558, E03349, AF159615, A30910, AR000422, AL117460, AL122045, X67813, AL050138, A08915, AF102578, AF057300, AJ005690, AF057299, AL137476, AL050366, I89934, AL137539, AL137488, AF038847, AR019470, AF094480, AF182215, AF113013, AL122110, A65341, AL133080, AL122098, U68233, I92592, E01314, AL023657, AL133077, A52563, AL122123, AL133104, AL133637, AF090886, A65340, AF210052, AL137574, AF090900, A45787, Y08769, I22272, AB019565, AF067790, AR013797, Y16645, AF090943, X79812, U67958, X06146, AL050172, A27171, S79832, AL133113, X66975, AL117435, AL137548, AF022363, AL080163, A08907, E02253, AF118070, AL137271, AJ242859, AF039138, AF039137, AL137660, AL050155, AL137294, Z97214, AC004227, AL117648, AF113019, AF119336, I42402, AF026124, AJ010277, AL096751, AL050393, AF113691, AF179633, AF113690, X66862, S36676, AF067728, AL080154, AF111851, Z13966, Z82022, AF183393, A58545, AL080137, AL133010, AL137555, AF000145, AF008439, AF081195, AR011880, E07361,

1659	HE8TT24	876946	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 873 of SEQ ID NO:1659, b is an integer of 15 to 887, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1659, and where b is greater than or equal to a + 14.</p>	<p>AL035458, AL137300, I00734, A08911, I89944, U75932, AF100931, X66871, U92068, A77033, A77035, A76337, AL133645, AL117626, AL137459, AL133624, AF106697, AL050116, E00617, E00717, E00778, AF030513, AI2297, AF106862, I68732, A58524, A58523, A08916, AF002985, AF012536, AF113689, AF215669, X61399, AL080159, AL049460, AL137530, X80340, AL117416, AR059958, AL080234, AF061795, AL117457, AF151685, AF158248, AL137665, AF104032, X96540, M92439, AC004686, AJ001838, L13297, E15582, AL117585, X54971, AF185576, AF026816, E02152, Y10655, Y10823, AF118094, AL137478</p>
1660	HSSJS63	876947	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 833 of SEQ ID NO:1660, b is an integer of 15 to 847, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1660, and where b is greater</p>	<p>AI862703, AA612688, AW249954, AI827363, AA610743, AI432650, AI802722, AI239964, AA701945, AA612922, AI361623, N33537, AI301851, AW002136, AI802741, AA176363, AA576449, AA976265, AA766161, AA918580, AA653969, AA148478, AA827535, AA808278, H93495, H62703, T17099, AI972187, N51008, AW195377, N35315, AA468340, AW272194, AA932140, H27698, H18938, AI242349, AI218074, AI915880, AA601068, AI263921, AI925918, T95492, R95678, AA287244, AI916550, AA886254, H26101, AA641272, AI985842,</p>

1661	H2CAA03	876949	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 494 of SEQ ID NO:1661, b is an integer of 15 to 508, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1661, and where b is greater than or equal to $a + 14$.</p>	AA284523, T64348, AI709153, AA405410, AA917562, AI625872, AA583805, AA514621, AA402915, AW299786, H28434, H21901, H21407, AI247273, T72816, H59524, T74771, AA931965, H60166, AA148477, AI767616, AI935706, AI640135, T28521, H24592, AA385649, T71664, AA835555, T72815, AI783613, H26143, R29069, L07548, D16307, AC006255, D14524, E04020, D13514, E04019, X68564, AB017196 AI200746, AA306947, AA679811
1662	HCROI77	876952	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 530 of SEQ ID NO:1662, b is an integer of 15 to 544, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1662, and where b is greater than or equal to $a + 14$.</p>	AA631215, AI924992, AW079378, AA988078, AI820581
1663	H2CBW39	876953	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>	AA315245, AB011148, A90836

			nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 430 of SEQ ID NO:1663, b is an integer of 15 to 444, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1663, and where b is greater than or equal to a + 14.		AI344224, AI343252, AI763340, AI971555, AI524277, AW195633, AW242690, AI949067, AW043627, AI949493, AI831556, AI589614, AA569876, AW118064, AW294645, AW022953, AA806680, AW068609, AA773062, AA461578, AW302627, AI962293, AA661535, AI914032, AI077935, AI350493, AA045227, AI433117, AA304941, AI475606, AI375626, AI307282, AA316518, AA814665, AA805929, AA622783, AW384234, N40708, AI355690, N29617, AA630457, AI671471, AI184753, AA251540, AI769738, AI192362, AI584155, AI040830, AW392440, N62356, AA099428, N48993, N41617, AA058804, AA167231, AA206488, AA167230, R66016, AI143758, AA669452, AA171987, AW028843, AI094496, AI219343, AI928715, AI640579, AA857867, T98791, AA130523, AA101889, AA460290, AA251498, AI868406, AI206342, R66015, AA172303, AA570042, AW401363, AW366605, AW007103, AA657969, AA635112, AA308035, AA373437, AI688532, AW068608, AI671588, D11580, H79250, AA503511, T27591, AA306546, AA330367, AW402028, AI219231, AI913403, AI630129, AA130522, AA344392, AA319396, T98790, N45715, AA569886, J02645, X53689, J02646
1664	HHBHM68	876954	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1265 of SEQ ID NO:1664, b is an integer of 15 to 1279, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1664, and where b is greater than or equal to a + 14.		AI341667, AA180986, AI341558, AI093197, AA031711, AI694268, AI469856, N63041, N50125,
1665	HSYBF36	876957	Preferably excluded from the present invention are one or more		

1666	HWMCE9I	876958	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2495 of SEQ ID NO:1665, b is an integer of 15 to 2509, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1665, and where b is greater than or equal to a + 14.</p>	<p>AI478279, AI150599, AI597740, AI985206, AI671591, W72535, AI741942, AA037642, AI962374, AA180865, AA031648, AI800796, AA436065, AA129939, AW002265, AI074205, AI056532, AI656721, AI275143, AI337739, AW172525, W00519, AA446926, AA043021, AA830493, AI655558, AI769027, AA443349, AI095056, AA917703, W933307, AA526333, AI689128, AA77090, AW002829, AA101851, AW139517, AI128702, AI276137, AA873711, N98234, W76109, AI631104, AA856832, W92810, AA042939, H87505, AA129938, AI688779, AA693329, AI676108, T87624, AA570072, AA037641, AI186390, T74071, AA031685, AA037500, R82703, AA037234, AW380430, AA985191, R82654, H87506, AA938640, AI926907, AI916503, AI696069, AW140052, AA102060, F12449, AI671894, AW057528, AI695458, AA046964, AA725452, AI968837, AA917824, AA054749, F10070, AA917678, AA683581, AA937814, AI932475, AI984598, AA046963, AA053281, AI801723, AI499751, AA085888, AA031686, AI074981, AI279953, AI809560, AF038662, AB024436, AF022367, AF142672</p> <p>AA890722, AI695176, AI223269, W15428, AI678286, AW449557, AI344351, AW129566, AW083717</p>
1667	HUVFJ36	876959	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 407 of SEQ ID NO:1666, b is an integer of 15 to 421, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1666, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more</p>	<p>AI923735</p>

1668	HLYBU84	876961	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 511 of SEQ ID NO:1667, b is an integer of 15 to 525, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1667, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1335 of SEQ ID NO:1668, b is an integer of 15 to 1349, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1668, and where b is greater than or equal to a + 14.</p>	<p>AW007548, AW369750, AI908457, AI630915, AW365081, AI817246, AI686944, AW162565, AA534893, AA033782, AA599322, AI096489, AA621824, AA176242, AA483552, AA588407, AI862878, AA427425, AA613885, AA412220, AA243477, W94878, AI460031, N95605, AA470032, AA677651, AI148140, AA902530, AA577431, AA523380, AI434640, AW026082, AI573043, AI129794, AW009274, AA554102, AA700766, AW292794, AI673429, AW160961, AW026393, AW272201, AA156869, AA075534, AI802460, AA643550, AA075634, AI086037, AI434128, AA432191, AI934640, AA936148, AA832390, AA043287, AI075001, AW009314, AA830134, AA769386, AI370761, AA075581, AA603666, AW337458, AA553892, AW380901, R36977, AI301698, AI613297, AA431171, AW190498, F36773, AA176143, AA961812, AA075591, AI201445, AA034038, AI355815, W93408, AA417790, R37629, AI538237, AA190514, R33090, AW087224, AA191034, H29313, AW057939, AI792731, AI384050, AA306868, AI016135, AI015828, T15760, R07498, AI587586, AA043626, AI034090, R00242, AA083325, AA553691, AI383781, F21581, AA156870, AA311197, F01230, AA316341, AA417694, W25045, AI147345, AI418700, AI202543, AA319535, AA933690, R07551, T60037,</p>
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1669	HWLMK6 5	876963		<p>AA376766, D19678, AA311196, AA196806, H01342, F30880, AA629750, F33909, AA243536, R00351, AA302201, AA524118, W28836, AA281519, R33180, AA719927, R76589, AA083438, AA911141, AA494408, AA034119, AA295285, T23201, AI984875, AA156979, AI142352, AI971194, AI762052, AI174475, AW026079, H01393, R76588, AI086242, AA777753, AA258556, AA782087, AI651923, AI306436, AA946836, AA946830, AW139820, AA946595, AA973780, AA761539, AI088083, AA741308, AA968972, AA865328, T86736, AA459999, AA701556, AI188245, AI188276, AI000875, AA599243, N32426, AI023878, AW027063, AI088920, AI193846, AA126805, AI800579, U20272, D32257, U14134, AC004739, AC006045</p> <p>T86558, R74597, AA495751, AI204352, N56848, AI242056, W20015, AA460093, AA307386, AA700368, AA693860, R97459, AI806458, R97416, AA164861, AI241618, AA235676, AA362800, AA203578, AA203546, AA704439, AI862463, N35933, N45430, AI239984, AI375890, AI393761, AI378188, N35287</p>
1670	HWLPY93	876964		<p>AI433785, AI379875, AA403186, AW069343, AI129895, AW069233, AA534411, AA181432, AA032182, AI935567, AI376398, AI089572, AI452747, AI803472, AA447447, AA236374, AA128133, AA477274, AI038660, AA477275, AI002572, AA233880, AA447446, AA181371, AW130668, AI769036, C03202, AI277470, W07713, AA715421, AA126867, AI680552, AA404675, AA126195, C04150, F30780, AA235347, AA192944,</p>

1671	HWMBV3 7	876965	nucleotide residues shown in SEQ ID NO:1670, and where b is greater than or equal to a + 14.	AA421799, AA024985, N80591, D79794, F37772, AA127217, AA027110, Z36263, AI925660, F35592, AW263312, AI139845, AA247376, AI038015, AI128210, AA193137, AL119598, AA249326, AA629114, F31719, AA232826, AA729266, AI193315, AA249762, AW373642, AW373769, AI375939, AI383560, T29636, AW391401, AF114264, AF056035, AF056034, S67069 W05557, AA278474, AA485179
1672	HCDME16	876966	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 801 of SEQ ID NO:1671, b is an integer of 15 to 815, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1671, and where b is greater than or equal to a + 14.	AI380296, AW206501, AI393559, AI369479, AI362907, AI125368, AW272471, AW136950, AW273903, U46350, U46345, AF166331, M60329, AJ272227, X86395, X86396
1673	HCRQM25	876967	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by	Z46094

1674	HWMBV7 2	876968	the general formula of a-b, where a is any integer between 1 to 577 of SEQ ID NO:1673, b is an integer of 15 to 591, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1673, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 602 of SEQ ID NO:1674, b is an integer of 15 to 616, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1674, and where b is greater than or equal to a + 14.	AA863064, AI637610, AA075674, AA075545, AA206591
1675	HCRQK24	876969	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 653 of SEQ ID NO:1675, b is an integer of 15 to 667, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1675, and where b is greater than or equal to a + 14.	AI032744, Z60017
1676	HWL0K80	876971	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by	AA694142, AA815120, AA749173, AI005429

1677	HNTBD04	876975	<p>the general formula of a-b, where a is any integer between 1 to 817 of SEQ ID NO:1676, b is an integer of 15 to 831, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1676, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1305 of SEQ ID NO:1677, b is an integer of 15 to 1319, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1677, and where b is greater than or equal to a + 14.</p>	<p>AI379864, AI081896, AW131833, AW170478, AI806491, AI378805, AI709093, AI491963, AI343481, AI083547, AA411203, AI718197, AA281624, AI379105, AI379556, AI361971, AA844487, AA422096, AI493410, AW370896, AI380997, AA583293, W04273, AW370895, H50534, AA465371, AA281683, AA890322, AI671250, AA465447, AA581543, H68367, H68369, AA338712, AW152574, T40124, R36504, T10779, R83236, AI699600, AI239994, AI333199, AW183647, AA353157, L48692</p>
1678	HWLUV59	876976	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 456 of SEQ ID NO:1678, b is an integer of 15 to 470, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1678, and where b is greater than or equal to a + 14.</p>	<p>AI889597, AI684260, AI351574, R98436, H51098, AI631843, AW291703, AW300604, AW194814, AW370191, AJ224747, AJ224748, AJ001306</p>
1679	HSUSF13	876977	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AI085974, AI858091, AI720077, AW072390, AI989948, AI934584, AW117525, AW237303, AW150311, AI692995, AI815035, AW102807, AI832505, AI922557, AW069468, AA446165,</p>

			<p>the general formula of a-b, where a is any integer between 1 to 1112 of SEQ ID NO:1679, b is an integer of 15 to 1126, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1679, and where b is greater than or equal to a + 14.</p>	<p>AW377667, AI342228, AW295915, AA843597, AA031368, AA031369, AA506182, AI338064, AW020666, AI128919, AI083953, AW367975, N27866, AA582219, AI751107, H96650, W47079, AI129845, AI953830, AA976702, AI750786, AI366199, AI014661, AI090678, H96654, AA846208, AA018530, AW085102, N92750, AI142994, W46779, AA044355, N40640, AI031911, AA913602, AA506298, AA769731, W78040, AA917375, R68943, W46978, N20969, AI750787, AA102449, H28051, W32033, N40269, N30984, R67524, AW367978, AA876079, H26305, H84840, AW074611, R70575, AA883585, AA725372, H13743, AI751106, W19406, AA778022, R70485, AA044033, H00808, AA055964, AA296636, AA459816, R78950, H26464, AI300644, AA642011, AA508205, AA508225, AW235801, AA649284, R24391, AA508374, AA035658, AA301832, AA296525, R21974, H88611, AA506194, AA370945, T90836, AI025235, H88612, AA055963, AA857378, R67525, AA018277, AI828914, R24281, H98539, AA337106, AA374691, T85743, H39859, R68830, R21973, AW366386, D61749, N28622, AA322178, AA975143, AA096079, AW025044, AI040706, AI459355, AW367977, W31440, AA302828, AA382269, AA382270, AA459696, R57416, AI684270, AI523423, AI554821, AI686576, AI537303, AI590021, AI624548, AI868204, AI955906, AI637584, AI818353, AI089970, AI581033, AI564290, AI569975, AI866469, AI440260, AI884574, AI621341, AI609409, AI458237, AI564719, AW008779, AI950892, AI927233, AI540674, AI538692, AI670002, R36271, AI698391, AI909661, AI866465, AI610690, AI783861, AI537273, AI866801, AW262042, AI800380, AI453328, AI538850, AL036901, AW118518, AI633125, AI697324, AI978703, AI583065, AI537244, AI538716, AA761557, AW160916,</p>
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AI623941, AI560023, AA641818, AI815232, AW071177, AI569309, AL134259, AW410259, AI702073, AL047100, AI537191, AW198090, AW149311, AI567944, AI696340, AW148408, AI612913, AI474646, AI440238, AW083804, AA715307, AA809974, AI432969, AI539260, AI860027, AL036923, AA470491, AI862139, AI819326, AI433157, AI654750, AI499393, AI539771, AI520785, AW151132, AI366900, AA835801, AI355779, AI923989, AI537677, AW051088, AW087207, AW169671, AI886206, AW161156, AI635492, AW105383, AI879377, AI690410, AI863382, AI872423, AI091468, AL038986, AW151766, AI524654, AI625595, AW073996, AI798456, AI804585, AI801325, AW022682, AI522052, AI439087, AW082033, AW104724, AI859991, AI573032, AF125535, Z92846, U00763, U01145, AL080140, A83556, I48978, AL035458, AC005291, A77033, A77035, AC007298, M81784, AF081195, U95739, AL080163, AF081197, A91162, AL050138, E08631, I89947, AF087943, AL050149, U72620, A76335, AL137459, E06743, AL110222, AL137480, AF098162, AL133665, AF100931, AL137558, X80340, AL137550, AL110218, AF061943, AF126247, AL049283, AL050024, X65873, AL050277, A08910, A58524, A58523, A08909, I48979, X61970, AL137526, Y16645, A08908, AL096744, A08913, Z37987, AF061795, AL080239, U62807, AF151685, AF039138, AF039137, AF201468, AR038854, AL133075, AF032666, X82434, AL122049, AL133640, AL133568, AF030513, X53587, AC004383, AF097996, AL137557, A65341, AF090900, U80742, AL122093, Z97214, AF104032, AL137476, X81464, AF078844, AL133080, AL049382, I26207, X84990, AL122100, AL137529, AL117457, AL117435, AR011880, AF026816, AJ006039, AF177401,				
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1680	H2CBE41	876978	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 616 of SEQ ID NO:1680, b is an integer of 15 to 630, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1680, and where b is greater than or equal to a + 14.</p>	AL137488, Z35309, AL133560, I89931, AB016226, AL133557, AF184965, AR034821, AF008439, AL137463, I49625, A08907, AL122110, X53777, AL133072, AL110280, A08916, AF125948, AF090934, AF028823, AJ000937, AL117587, AL080074, AL137554, A91160, Y14314, A08912, AL137656, AC004822, A23630, A18777, AL049430, AL137533, AF079765, A03736, AL049347, U88966, X72889, A08911, AL122121, AF113691, AL137560, AL137538, AF090901, X93495, AL133031, I96214, AL080159, AL117626, AF090903, AL133016, I09499, AL122045, AF061981, AL080148, S76508, AL122123, AL050366, AR034830, AL137627, AF113019, AL133558, Y18680, AL122050, I33392, AF113699, Y13350, AL133081, AF079763, AF111849, E07108, Y09972, AF067728, AL133077, AL110225, S68736, AL122118, I32738, AL133113, A18788, I89934, AL080110, AF091084, AF031903, E05822, AF111851, U35146, AF183393, I03321, AF106862, AL137479, M80340, I89944, A21103, Y10655, S75997, L13297, S36676, AL122111 AA307330, AI032392, AI434808, AI632534, AW136621, AI992345, AI637461, AA836544, AA745059, Z21538, D20524, D80522, D81026, AW377671, D58283, D59889, D80133, D80043, D80022, C14331, D80248, D81030, D59859, D80188, D80166, D50979, D80195, C15076, D80269, D59467, D51423, D59619, D80210, D51799, D80391, D80164, D59275, D80240, D80253, D59787, D80227, D80212, D59502, D57483, D80196, D80219, D59927, D50995, D80251, D80038, AA305409, D80193, D59610, C14389, D51060, D80378, C14429, D80024, D80366, AA305578, D51022, D59373, D80045, C75259, AW177440, AA514188, D80241, C06015, AW360811, AW178893, D80268, T03269, C14014, D59627, AA514186, AW375405, AW360844, D80014, D80132, AW179328, AW177501, AW177511, D51213, D80247,
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AW378532, AW366296, AW352170, AW360817, D80302, AW375406, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, D80439, AW177505, AW178775, D80064, C05695, AW377676, D81111, AW178762, C14227, AW360841, D58101, AW352117, D80134, AW178906, D51250, AW178909, D59503, D58253, AW177731, AW178907, AW178754, AW179019, AW179018, AW179024, AW369651, AW367967, AW352158, F13647, AW179020, AW176467, AW177456, AW179329, AW178980, AW360834, AW177733, AW378528, AW178908, AW178971, D51103, AW352174, T02974, C14407, D51759, D80157, AW179017, AW179004, AW179009, AW179012, AW178914, AW378543, AW378525, AW352163, AI910186, AI557751, T11417, AW378539, D80168, AI905856, T03116, AW178774, AW178911, AW177722, AW177728, D59653, T48593, AW378540, C14298, AI557774, D45260, AW178781, AW352120, C03092, D60010, H67866, AA809122, H67854, AI525923, Z21582, D52291, AW367950, D59695, D80949, C14344, AI525917, D59317, D45273, D58246, D59474, D80258, AI525227, AA285331, C14046, C14973, AW177734, AW378533, D51079, AA514184, D51097, AW167716, AW178986, D51221, C16955, C14957, AI525920, AI535686, D59551, AI525912, D60214, AI525235, AW179013, H67858, T03048, Z33452, AI525242, AI525925, AI525215, F13796, AW378542, C05763, U38654, AF154840, AF125393, U57094, A62300, A84916, A62298, AJ132110, AF058696, AR008278, AR018138, AB028859, D34614, X67155, Y17188, D26022, A25909, Y12724, A67220, D89785, A78862, A82595, A94995, D88547, AR008443, AR060385, AB002449, X82626, AR016808, AR025207, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR054175, AR038669, Y09669, A43192, A43190,				
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1681	HWLFY03	876980	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 598 of SEQ ID NO:1681, b is an integer of 15 to 612, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1681, and where b is greater than or equal to a + 14.</p>	<p>AR066490, IL4842, AR066487, A30438, Y17187, I18367, AR008277, AR008281, A63261, D50010, A70867, AB012117, AR062872, AR016691, AR016690, U46128, X68127, AR008408, A64136, A68321, A85396, D88507, AR066482, A44171, I79511, A85477, I19525, A86792, D13509, AR060133, X93549, X72378, AF123263, AR032065</p> <p>AA307778, AL119084</p>
1682	HE2JX48	876981	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1180 of SEQ ID NO:1682, b is an integer of 15 to 1194, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1682, and where b is greater than or equal to a + 14.</p>	<p>AA426499, AW081325, AI985955, AW021040, AI160194, N51691, AI139313, AI378674, AA622963, AI624270, AI656023, AI418379, AI095120, AI634162, AI362188, AI190851, AI091497, AA009944, AA418983, AI336531, AI394274, AA857944, C15793, AI214264, AI277517, AI346314, N47105, AI361996, C16060, AW192963, D57940, AI536992, AI304548, AA918156, C16528, N40979, N67845, AA393695, AA857656, AI659750, H95189, AI493625, C16468, D56642, AI094425, AA552961, AI080394, R81446, AW439682, N51633, D56627, D56835, N44986, H88689, AI589928, AA379627, R76880, AI832292, H88648, C16043, D57541, D57973, AA328571, D57430, AA360724, AI089758, C16179, C16087, D79736, AI445344, D56588, R32408, AI470720, R81649, AI279894, AI933918, AI218414, R69853, AA056022, AI333062, AI004951,</p>

	AI088814, AI301446, AI301394, AA775678, AA603697, AI151369, AA775618, AI961728, D56917, AI151348, AI921968, H88952, AI423219, AA101875, AA345303, AI379653, AI218413, AA148883, R69854, AI553652, C16222, AA247850, AI638373, D62852, D57431, C16128, T99176, AW073968, C21346, D79319, D25644, R57315, D62988, C16117, C16253, N50313, AA918998, R32407, AI096770, AA479361, AA564604, AA479186, R77041, AA478645, AW205520, AW069594, AW104938, AI755000, AW069627, AI264950, AI362021, AI584053, AI367672, AW337368, AA206329, AW128957, AA666020, AI249775, AI130987, AW198220, W74332, AW338136, AA872307, AA171971, AW241261, AW338347, AA148956, AI916347, AA554374, AA862791, AI718186, AA150911, AI659417, AW026625, AI190520, T27978, H89035, AA975415, AA479472, AI911934, AI819270, AA256999, AA977736, AA723064, W72577, AI336178, AA722599, AA905491, AA075265, AI580783, N26834, AA532639, AI193987, AA142873, AI620284, Z20033, AI039612, R62837, AI433157, AI358578, AI500659, AI500523, AI284517, AI275175, AI539771, AI433976, AL045500, AI537677, AI281773, AI491776, AI801325, AI499463, AI624206, AA452612, AW151138, AI696612, AI815232, AW148320, AL045266, AW008048, AI282655, AI572787, AW075351, AI524671, AI274508, AI889376, AI866457, AI282281, AW087445, AW075413, AI432666, AI567940, AL036802, H52440, AI436456, AI610362, AI270707, R64680, AI963846, AI612913, AI554821, AI783504, AI866608, AL121286, AI637584, AW238730, AI538716, AI862144, AI926790, AI500077, AI702406, AI921248, AI590120, AI571909, AL040243, AI702073, AI349598, AI269862, AL038605, AI249323,

	AI702068, AI869367, AI281772, AI631107, AL036396, AI610402, AI281837, AW170635, AW051258, D45889, A74912, I89947, I48979, A08916, A08913, I89931, D13542, I48978, AL137527, AF091084, L31396, AL133640, L31397, AL049452, AF104032, AL122049, AF113013, A03736, AL049430, AF113677, AL050116, AF106862, AL137557, AL122098, A08910, AL050277, AL117457, A08909, AF090943, AF146568, AL080159, S78214, AL133016, AF113699, AL137459, A65341, E07361, AL133080, AF113691, AL080060, A77033, A77035, I33392, AL110196, AL137463, AL133113, AL049466, AF113019, U42766, Y16645, AF113690, AF090903, AL117460, AL050149, AL080124, Y11587, AL050393, AF090934, AL137271, AL049938, AF125949, AL133557, AF177401, U35846, AL049283, AL133565, AF078844, AF090901, AL049382, AL050146, AF090900, I49625, Z82022, AL117583, AL133093, AL122110, AJ242859, AF113694, A58524, U80742, E03348, AF067728, AF113689, AB019565, Y11254, AL049314, AF113676, AF118064, A58523, AL122123, AL110221, AR059958, S68736, AF125948, AF090896, AL122093, AF158248, AL050108, AF118070, AL050138, AF183393, X84990, X72889, AL137550, AL122050, AL133072, X82434, AF111851, E02349, AL133075, AL133560, AF017152, AF017437, AL117435, AF118094, AL080137, I03321, AL122121, AL133606, AF087943, AR011880, E07108, AL096744, AL117394, AL110280, AL050024, AJ000937, AL117585, AL049464, U91329, E15569, A93350, AL137648, A93016, X63574, U67958, AF097996, I42402, U00763, A12297, X93495, AL137538, AJ238278, AF079765, AL110225, I09360, AL133077, I26207, AL137521, AL049300, Y14314, AL137283, U72620, X96540, AF119337, AL080127, X65873, X70685, AF026816, AJ012755, AL133067, AF153205,

1683	HNFD27	876983	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1000 of SEQ ID NO:1683, b is an integer of 15 to 1014, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1683, and where b is greater than or equal to a + 14.</p>	<p>A08912, AF061943, AR038969, E08263, E08264, AL137560, AF185576, X98834, AL110197, AL050172, AL133014, AL137480, S61953, AL133104, AF111112, AR000496, U39656, AF026124, AF057300, AF057299, AL137523, E05822, AL137556, Z37987, AL133568, AL137476, AL137526, AR038854, U58996, AF079763, AF111849, AJ006417, AF003737, AF061981, X87582, AL117440, AC004383, U49908, AL133098, AL137488, AF061573, AF032666, A45787, U96683, Y09972, I00734, Y07905, AF051325, X92070, AF162270, E00617, E00717, E00778, U78525, L19437, A07647, Z72491, M30514, AF177767, AL122118, X53587, AL080074, AL137300, AL137533, AF106827, AC002464, AF106657, AF008439, AR020905, AR013797, A90832, L30117, I17767, E08631, AF095901, E04233, U68387, I09499, AF139986, AL133031, E02221, AF118090, AL122111, AF210052, AL122100</p>
1684	HWLXS11	876984	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 417 of</p>	<p>AI742835, AI469703, R98751, R83167, AI538038, AI215412, T96765, AA206614, R93713, AI678748</p> <p>AI692881, AI240606</p>

1685	HCRPG94	876985	<p>SEQ ID NO:1684, b is an integer of 15 to 431, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1684, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 555 of SEQ ID NO:1685, b is an integer of 15 to 569, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1685, and where b is greater than or equal to a + 14.</p>	<p>AA307658, AW381667, AW295050, AI525535, AF095791, AF220152</p>
1686	HCUGO73	876987	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 908 of SEQ ID NO:1686, b is an integer of 15 to 922, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1686, and where b is greater than or equal to a + 14.</p>	<p>AI581133, AI183335, AI591306, AI859797, AI474090, AA757640, AI076898, AI559591, AA457735, AW173564, AW204070, AA480846, AA767766, AI526090, AI392866, AA723065, AA939140, R52542, AW103638, AA766199, AA757573, AI591339, AI910407, AA036665, W47118, AW020710, AA580663, AL039858, AA708505, AI002285, AW090087, AA641818, N63128, AI440263, AL040827, AI889256, AA939199, AI866465, AI401697, AW263804, AI538850, AI688848, AL120853, AI886440, AI859782, AW161156, AA557132, AI567961, AI801325, AW020373, AI587000, AW020397, AI624950, AI500714, AA056265, AW020693, AI581033, AI961414, T99953, AI918554, AW167918, N99092, AI619513, AI345005, AL041016, AI340627, AI570861, AI889147, AI582932, AL121564, AI685798, AI698391, AI345014, AI538564, AI915291, AW152182, AA420722,</p>

	AW161579, AI471909, AI923989, AI284517, AI590043, AI491852, AL047422, AI889189, AI811192, AI917994, AI473536, AI340982, AW079432, AA857847, AL049048, AI866469, AW151979, AA741027, AI371251, AI859991, AI884318, AI440238, AI624245, AI568061, AW075382, AI923750, AI348854, W74529, AI866573, AI702343, AI539260, AA042949, AA502794, AW191003, AW071380, AL036923, AI334893, J05272, AC007283, U00978, A91160, A91162, I48978, Y10080, X06146, A21101, I52013, AF125948, U49434, AL133080, A83556, AF017790, A08910, AI8788, D89079, AL117440, A08909, S83456, A49139, AF047716, A58524, A58523, AF119337, A08908, X70514, AL137292, I30339, I30334, A08912, AJ006417, E12747, AL136884, S63521, AF087943, A07647, U42766, AF124435, AL122045, AL133072, AF113013, I00734, I48979, A76335, S77771, E00617, E00717, E00778, AL137476, AR038854, A08907, AL050172, U58996, X15132, E04233, A08913, AL137459, AF146568, U72621, AL096720, A12522, A18777, I89931, Y18680, AF111849, S76508, D16301, A08911, I89934, I89944, AL050149, I49625, AF094480, L04849, Y08864, AJ000937, AL137640, AL049430, AL080154, I46765, AL122100, AJ003118, AL117587, AL050280, AF159148, AF026124, AF106945, AF118094, AL117460, U62807, AL049996, AB016226, AF113019, AL133637, AF100931, Y16645, S36676, AL110196, A77033, A77035, AL080159, AF143957, AF079763, Z37987, AL117457, Y14314, AL080156, AR038969, AL137488, AF090901, AL080126, X65873, U35846, L04504, AJ012755, I89947, A17115, A18079, A15345, AL080124, X62580, AL049382, X63162, AL117649, AL110158, AF090903, AL050116, AF061981, I32738, AB030279, AL080163, AL133112,

				<p>AL137267, I68732, D83032, L13297, A08916, AF031903, AF118090, AL133568, AL110225, AL122123, M80340, AC004200, AF179633, AL137463, X81464, AL137627, AF013797, AF207750, AF113690, AF017437, X66871, AL133558, AL049283, I33392, AF051325, AL049464, L30117, M85164, M27260, AF199027, AF180525, U78525, AL133569, A52563, AL137527, Y07905, AF139986, AR068466, AL137548, AL137665, AF061943, U72620, AL137550, AL137539, AL117648, AL049347, AF038847, Y10936, A90844, AL137560, E02349, AL110296, AF090886, AL096744, I25049, I25048, AF177401, X86693, AF039138, AF039137, AL117394, AL133010, AF112208, AJ005690, AL137479, X72889, A90832, AL133665, I80062, E02152, I79595, AF002985, S75997, AF113694, X82434, AF119336, AF090943, AB031064, AF069506, AL133624, AL110221, X54971, U57352, AF016271, AL117443, AL137641, AL137480, AL049452, I29004, X66417, AL110159, AL133560, S61953, Z48796, AF028823, AL137283, I28326, AF067728, X87582, U67958, A93350, AL137529, E07108</p>
1687	HPMDD49	876989	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1582 of SEQ ID NO:1687, b is an integer of 15 to 1596, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1687, and where b is greater than or equal to a + 14.</p>	<p>AL134806, AW408278, AW382759, AA315582, N43819, AW393044, AA310712, AA321625, N26436, AW393061, AA089543, AA740922, AW364275, AW402662, AA281391, AI540961, AI271339, D25278</p>
1688	HCNSF23	876990	<p>Preferably excluded from the present invention are one or more</p>	<p>AI394043, AI198754, AI198189, AA969930, AI739036, AI268413, AA861762, AI222281,</p>

1689	HKDBC15	876991	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 315 of SEQ ID NO:1688, b is an integer of 15 to 329, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1688, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1259 of SEQ ID NO:1689, b is an integer of 15 to 1273, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1689, and where b is greater than or equal to a + 14.</p>	<p>AA883969, AI312584, AW197737, AI337319, W60319, AI476496, AI420953, AI816942, AA917042, AW418714</p> <p>AI862551, AI765006, AI917375, AI972770, AA552639, AI218562, AI768706, W65408, AI350781, AI640306, AA574291, AA468717, AI307307, AA055447, AA514669, AA574359, AA516276, AI658818, AI886513, AW104092, AI056398, AW291148, AW026517, AI537287, AI493566, AI420453, AI962537, AA468798, AA477076, AA055446, W61322, AI669652</p>
1690	HSIGM23	876992	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1006 of SEQ ID NO:1690, b is an integer of 15 to 1020, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1690, and where b is greater than or equal to a + 14.</p>	<p>AA504588, AL138384, R78587, R64412, AA236105, AI367325, R26008, H25950, AI359774, AI222758, AI285942, AI499688, AW072370, AI042411, AA928406, AI817207, AI130765, AW016387, AI082279, AI073537, R78588, R63806, AA405549</p>
1691	HCQBN43	876993	<p>Preferably excluded from the present invention are one or more</p>	<p>AI688703, AI761358, AI813766, AW182487, AI829360, AI380125, AI890417, AW377304,</p>

1692	HCQB003	876994	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1622 of SEQ ID NO:1691, b is an integer of 15 to 1636, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1691, and where b is greater than or equal to a + 14.</p>	<p>AI934593, AW377372, AW377334, AW377268, AW375342, AW377315, AI357827, AW377285, AW377266, AA305061, AI559533, AW377387, AW377252, AW377383, AW377255, AI283201, AI286089, AW377339, AW377240, AW377223, AA515982, AI343596, AI475146, AW193361, AW377246, AA579699, AI289618, AW351695, AA503064, AW377220, AI803822, N49117, AW375369, AW351685, T29359, AW377256, AW375332, N48341, AC000061, AR016032, I11500, I66544, M55131, M76128, A83151, U20418, A49045, AF162427, I66545, AF016950, AF162400, AF013753</p>
1692	HCQB003	876994	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 821 of SEQ ID NO:1692, b is an integer of 15 to 835, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1692, and where b is greater than or equal to a + 14.</p>	<p>AW369811, AW014155, AI334392, AA664276, AA608594, AA984631, AI954111, AA410972, AA586953, AW194426, AI445882, AI420061, R11024, AA911063, AI335787, AI623204, AA419568, R11072, AA864381</p>
1693	HCQCF85	876997	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 593 of SEQ ID NO:1693, b is an integer of 15 to 607, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1693, and where b is greater than or equal to a + 14.</p>	

1694	HUVFS16	876998	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1259 of SEQ ID NO:1694, b is an integer of 15 to 1273, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1694, and where b is greater than or equal to a + 14.</p>	AA443167, AL046148, AA243821, AA492497, AA243686, AA405113, AI351901, AA463466, AA011361, AL043877, AB020669, AF054828, AF068920, AF068921
1695	HCQBD51	877000	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 786 of SEQ ID NO:1695, b is an integer of 15 to 800, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1695, and where b is greater than or equal to a + 14.</p>	AI635096, AA165632, AA523697, AW166525, AA769127, AW129960, AI686907, AI768699, AW136550, AI915606, AW188763, H79957, AI540313, AI769970, AA719353, AW151462, AW418915, AA829144, AA165668, AW182418, AW102605, AA757716, C16515, AA907061, AA860897, AI217462, AI217382, AI239881, AA703100, AA577904, R21911, AI637789, N87490, N42130, AI764980, AI936236, AI141067, AA649747, AA642829, R69594, AA528274, AA992380, AC006047, AP000509, AC004185, D84394, AL080317, AC005406, Z97876, AC009542, AC009330, AF058907, AF196971, Z98750, AC011604, AL030998, Z83820, AC004707, AC004617, AC004691, AC007319, Z97054, AC005908, AC003983, AL023280, AL031073, M74509, AC010209, AF026254, AF026248, AF026249, AC003678, AC003689, AC002094, U77841, AC004772, AL022147, AC004924, AC003093, AC004985, AC005574, AC003082, AL049697, AR036572, U91328, AC007206, AP000083, AC006023, AC002536, Z83839, AP000689, AC002059, AJ233329, AP000688, AB003151, Z98257, AC006017, AC005632, AC003087, AC006335, AC007317, AC022517, Z97198, AC000385
1696	HCRMU18	877001	<p>Preferably excluded from the present invention are one or more</p>	AA486568, AI733856, AA077667, AI090377, AA831426, AI336771, AA493546, AA670392,

			<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 504 of SEQ ID NO:1696, b is an integer of 15 to 518, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1696, and where b is greater than or equal to a + 14.</p>	<p>AI816058, AC005914, AL035681, AL050307, AC009516, Z83826, AC005015, AC007041, AC004706, AC005484, AC004819, AC007536, AL121825, AF067844, AP000512, AC004962, AC007685, AF109907, AC005412, AC009247, AC005274, AF027390, AC002477, AC006487, AC006011, AL022318, U62293, AC005730, AC005069, U22376, AC005800, AL139054, AC007216, AC004150, AC000353, Z95114, AC005754, AL049569, AL049766, AC005013, AC005081, AB023049, AC006581, AP000558, AP000045, AL080243, AC009248, AC005071, AC004686, AL109628, AC007073, AC005971, AL035461, AL022721, AC005164, AL096791, AC005057, D84394, AL121658, AC006251, AC009721, AC003663, AC007371, AL049869, AL031432, L44140, Z98950, AC005520, AP000031, Z98946, AL022238, AC006511, AP000557, AC004668, AL031666, AF207550, AC005488, AC005358, AL117694, AC019014, AL121603, AL021940, AC007226, AC005632, AC005670, AC005529, AC006006, AC008115, AC002300, AL035086, AC005200, AC004491, AL023807, AF200465, AP000116, AC007676, AC004149, AF129756, AC007899, AC005740, AC006961, AC004913, AC005088</p>
1697	HONAN63	877002	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 530 of SEQ ID NO:1697, b is an integer of 15 to 544, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1697, and where b is greater than or equal to a + 14.</p>	<p>AA305628, AA308609, AA300521, AA356487, AA363124, AB020712</p>

1698	HCQCU65	877004	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 518 of SEQ ID NO:1698, b is an integer of 15 to 532, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1698, and where b is greater than or equal to a + 14.</p>	<p>H73991, AI770045, AI8666911, N24909, AA418453, N20611, AC006153</p>
1699	HCRNO79	877005	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 175 of SEQ ID NO:1699, b is an integer of 15 to 189, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1699, and where b is greater than or equal to a + 14.</p>	<p>AA987568, AL035420</p>
1700	HCRMO22	877006	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 624 of SEQ ID NO:1700, b is an integer of 15 to 638, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1700, and where b is greater than or equal to a + 14.</p>	<p>AB028946</p>

1701	HFDME46	877007	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 681 of SEQ ID NO:1701, b is an integer of 15 to 695, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1701, and where b is greater than or equal to a + 14.</p>	<p>AA074619, AW375400, AW389301, AI909808, AW389291, AB014603</p>
1702	HCWHN82	877008	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 531 of SEQ ID NO:1702, b is an integer of 15 to 545, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1702, and where b is greater than or equal to a + 14.</p>	<p>AI283018, AW451644, AA889452, AI369736, AA971331, AI811185, AA991486, AA146655, AI888354, AA319058, AW388636, AI569358, AA877264, AI473558, F35033, C17917, AI952676, AI752007, AI860674, AW378122, AI687473, AW364312, AI209004, AI476109, AI446124, AW084219, AI567637, AW168485, AI805638, AW189268, AI244380, AI564515, AW088903, AI866002, AI678021, AW088899, AI701975, AI359590, AI696819, AI817543, AI365256, AI358042, AI610645, AI682075, AW409775, AI587288, AI886532, AW044626, AI697324, AI687362, AI499263, AW151729, AI280661, AI537617, AI611743, AI612759, AI570966, AI915243, AI633419, AI537991, AA603709, AI288285, AI866082, AW089179, AI690924, AI952302, AW085786, AI569309, AW023338, AI799199, AI569328, AI677797, AI249877, AI890057, AI471361, AI648408, AI539153, AI619716, AI867042, AI566630, AW265004, AI472536, AI919345, AW130863, AW168795, AI366549, AI636719, AI866741, AW002174, AA807088, AW118518, AI829327, AI805688, AW083804, AI696626, AI249946, AI589993,</p>

	AI241792, AI800138, AI583961, AW023390, AW082600, AI282504, AI598061, AW151785, AI620868, N74355, AW103886, AI961310, AW090451, AW083189, AI813919, AW059713, AI969641, AI687465, AI554343, AI699011, AW193203, AW189933, AI560052, F34958, AI922577, AI874151, AI613471, AI620093, AI635299, AI680498, AW151714, AW129230, AA830821, AW089006, AI274013, AI699862, AI890182, AI282508, AI567993, AI539771, AI873638, AI866608, AI476371, AI580674, AI475394, AI266436, AI888621, AI951446, AW149876, AI554344, AW078710, AI470293, AI567351, AI631112, AI491783, AI924721, AI339435, AI540823, AI698401, AI802240, AI572717, AI952920, AI251830, AI805769, AI434242, AI783861, AW103441, AI568296, AI921734, AW075522, AI620287, AI866786, AI568132, AI473528, AI590999, AI922996, AI828574, AW079159, AW151750, AI811912, AI799234, AI670782, AI280670, AW409687, AI567302, AI912866, AI439443, AW242116, AI697420, AI863357, AI364788, Z98484, AI828731, AI554484, AI885982, AI474107, AI955604, AI632408, AW151034, AI540821, AI472422, AW172723, AW170663, AW089436, AW081231, AI799195, AI682720, AW129170, AW151847, AI696186, AI590686, AI269580, AI573026, AI587606, AI254727, AI343582, AI468872, AW163823, AW089327, AI698427, W46547, AI824746, AW079075, AI631212, AI433976, AI564749, AL110306, AW081255, AI922901, AW148716, AI627909, AI954075, AI873604, AA848053, AW406745, AI249962, AI801608, AI499621, AI697099, AI537076, AI929108, AL046463, AI758816, AI589668, AI336575, AI689579, AW268261, AI741926,

	AI400725, AI432790, AI863014, AI932794, AW151681, AL031228, D84401, E12645, AF117221, D82060, AL117578, AL137556, AL133014, AI8777, AL080074, AL122098, AL137558, AF012536, I48978, A08916, I89947, AL080137, A08913, I89931, A08912, A08910, E03348, I49625, E03349, A08909, U42031, AL050138, S77771, AR038854, AL133645, A08908, AL137300, X80340, X93495, AF067790, AF119337, AF000145, I26207, D83989, U67958, Y08769, AL122045, I66342, AF106657, AL133010, U88966, AL080124, AF162270, AL137292, AL122111, L30117, AL080127, AL137705, AB019565, AF017437, AF065135, AF210052, AF205861, AF185576, I89934, I89944, AF113689, E02253, AR059958, U96683, X79812, AL137640, S68736, U80742, AI2297, X96540, A77033, A77035, S76508, AR000496, D89079, U39656, I42402, E15569, AF032666, AL137463, AL080060, AL137429, AL133067, AR038969, AF132676, AF061836, AL137538, AF090886, AL137712, AL137527, E02221, AF111112, AL137526, X00861, I09360, AL133093, X87582, E05822, AF215669, AL122106, X84990, AF017152, AL133665, AF125949, A45787, AL133077, AL137658, AF030513, AL137294, AF113691, AL110280, AI8788, A93016, AF078844, AF118070, A93350, Y14314, AL080140, S79832, AF022363, AL122121, U72620, X72889, A65341, J05032, AL133016, AL137273, AL117432, AF104032, I48979, AF003737, X72387, E04233, AL110221, AL117440, AL122118, AL049465, AL137476, AL050277, AL133104, AF114170, A65340, AL133558, Y11587, U00763, X62580, AL049382, AL137574, U78525, AF090901, AL133072, AF113013, AF008439, X81464, I41145, S61953, A21103, A08911, AL080086, AF113019, AL049460, E15582, AF028823, AF100931, AL122049, L19437, Y16645, AF118064, AL137478, AL122050, AL080159,

1703	HHPEK59	877009	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1606 of SEQ ID NO:1703, b is an integer of 15 to 1620, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1703, and where b is greater than or equal to a + 14.</p>	<p>AL133640, AL133098, X52128, AF159615, I17544, AL133557, AB007812, AL080158, X92070, U87620, S69510, AL133075, AF061795, AF151685, AF113676, AL096744, AJ003118, AF158248, U49434, AF061981, AL133568, AF146568, AL080148, AL133113, AL133565, E01614, E13364, AF106862, AF081197, AF081195, X53587, AC002467, X82434, A08907, AR019470, I33392, Z82022, AF176651, AF183393, AF153205, AF106697, A52563, AF139986, A08915, AF057300, AF057299, AL137283, AL117585, Y10080, AR068751, S75997, AR029490, Z72491, AL133081, AL049452, AL117460, L31396, I80064, AL137521, L31397, S78214, M92439, A15345, AL049464, AL117648, AF090934, AF118094, AL137557, U95114, AL110196, AL049466, AF118090, AL049314, AL080154, I03321, U58996, E06743, A90832</p>
1704	HKCTB07	877010	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 391 of SEQ ID NO:1704, b is an integer of 15 to 405, where both a and b</p>	<p>AA149062, W55857, AI654104, N91520, AA398769, AL041623, AA149063, AA307763, AW450873, AI082461, AA709060, W06955, AI079909, AI920841, AA292830, AI268616, AA191706, AA010085, R07052, Z44437, T87013, T12757, Z40368, AA844584, AI955471, W55858, AW135814, T52489, N48933, T56321, N46430, AA864954, AI274165, AF027218, AF027219, AF155101</p>
				AF105020

			correspond to the positions of nucleotide residues shown in SEQ ID NO:1704, and where b is greater than or equal to a + 14.	
1705	HFP1Z22	877011	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1578 of SEQ ID NO:1705, b is an integer of 15 to 1592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1705, and where b is greater than or equal to a + 14.</p>	<p>AI458123, AA770557, AW299665, AW236534, AI952929, AI340145, AI339835, AI650682, AI472033, AA256229, AI268229, AA678840, AW190757, AI075831, AI631649, AL138340, AW080424, AA293773, AI373728, AA704702, AA677322, AI033016, AW204318, AA848089, AI891160, AA399568, AA227660, AI001981, N24286, AA747722, AI537348, AW025794, AA218733, AI865908, H98718, H64686, R38180, R17022, N70123, AI493281, AW007482, H70397, AW134908, AA334373, W04161, R09968, AA394090, R16715, T77116, W01375, AI690748, AW169604, AI624293, AI267162, AI245731, AI273189, AI627988, AI698391, AI368579, AI969655, AW149925, AL046835, AI690687, AI524654, AI289310, AI868204, AW051088, AI869377, AI678446, AI613038, AI590043, AI469587, AA464646, AI589428, AI590830, AI863382, AI677797, AI621341, AW149076, AI536574, AI538850, AI921254, AI927233, AI568592, AI590423, AW020397, AI583982, AI950892, AL045266, AI335208, AI491775, AI865906, AI612913, AI888208, AI670009, AI433157, AI702073, AI890507, AI682968, AI401697, AI538564, AI445611, AI679266, AI913312, AI686576, AL037454, AI627893, AI586931, AI872545, AL037582, AL037602, AI815232, AI281757, AA766116, AI537677, AI434731, AI633534, AI648454, AI634467, AL036802, AI540674, AL039086, AL036673, AI471282, AW162194, AI582932, AW148423, AI923989, AI583578, AI866770, AL120300, AI890907, AI370623,</p>

	AI633009, AI251221, AI590020, AL042944, AI884318, AI933992, AI570056, AI699823, AI523806, AI571439, AL046595, AI553645, AI287449, AW020419, AI865900, AI435253, AA420722, AI263312, AI536601, AW169671, AI349772, AI225023, AI473208, AI632408, AI355277, AL045413, R36271, AA502794, AI439745, AW163834, AI270295, AW023338, AI340603, AI801793, AW075382, AI570861, AL040241, AI610402, AI635016, AI440399, AL046944, AI312428, AI828412, AL046466, AI909641, AI623662, AI859991, AI142101, AI345688, AI912434, AI500061, AW102798, AI686817, AA572758, AA641818, AI249389, AI826331, AI633125, AL042981, AL134259, AI561356, AL079963, AI915291, AW152182, AW166870, N33175, AI565172, AI540676, AI800433, AI888501, AL121365, AI889189, R32821, AI345745, AI538885, AI539560, AI612750, AI440239, AL040011, AI479292, AI866469, AI818574, AL036396, AI500714, AI340519, AI432644, AW193894, AI469532, AI872423, AI638644, AL119828, AI623941, AI699020, AW302988, AI524179, AW193635, AI521560, W46378, AW168788, W74529, AI741158, AI686808, AL048323, AI802542, AW161579, AL119748, AI559752, AL048340, AI500514, AI918435, AW238688, AI241741, AW089272, AI684244, AI358701, AI306610, AI590227, AF007128, AC005182, AL035458, AC006336, AJ001388, AF032666, AF097996, I48978, A65341, AL122110, AJ005690, I89947, AF140224, AL122093, L31396, AJ012755, L31397, I48979, AL117587, AF047716, AL137558, S78214, AR038854, A07588, A77033, A77035, AL050108, AL050138, AF199027, AL117435, A08916, A08910, AL035407, AF200464, U72620, AL133557, AP000208, AF017437,

Y16645, L40363, AL049423, AP000247, AL080148, AL049452, A08909, A08913, S68736, A15345, AL122050, AL050278, AC007114, AF067728, E03671, AL049382, AL117460, I66342, Z97214, AF113699, AL096744, AL133565, AF104032, AF091084, X67813, AL049300, A65340, AL137478, S79832, AL078630, AL133067, AL133640, AL137459, AF090903, AF177401, AL133560, U67958, AL080159, AF022363, AL133113, AL110280, U42766, AL049283, AF109906, AL110225, AR034821, X96540, AL136884, AL137530, X89102, AL117416, AL050149, AF061981, M92439, A58524, A58523, E02349, Y09972, A08912, AF090896, AL137294, AL050393, A18777, I89931, Y11254, AJ000937, AL110221, AL117457, AL050116, AL049339, AF158248, AF090901, A03736, AF115410, AR011880, AL133637, X79812, AL050024, Z13966, AF061795, AF151685, AL137533, AL137550, AF061573, AL137292, S76508, S61953, I49625, AF113690, A57389, AL133080, AF087943, AF079763, AL122098, AL133075, E01614, E13364, AL137271, AL137480, AF102578, AF026816, AL050277, A08908, AF118070, U58996, Z82022, AF100931, Y10823, AL137557, D89079, AJ238278, E07108, AF090900, I32738, AL133665, U88966, AP000130, I89944, AR020905, AF113694, AF113677, S63521, AF118064, AL049938, I33392, AF183393, AL080162, AL023657, AL117394, AL080126, AL133619, A21103, X82434, S36676, A93350, Y14314, AF057300, AF057299, AC006112, I89934, AF090934, Y11587, AF106827, X84990, AF081197, AF081195, AF118094, AL133016, AL050155, U35846, AL137479, AL080124, U75932, AB019565, S75997, AF113019, AL110196, AF107847, X70685, AF115392, AF125948, AF125949, A45787, AL080140, AL050146, AL133031, U78525, AF079765, AF106862, X98834, D83032, AF126247, AF082526, A76335				
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1706	HE8FB89	877012	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1428 of SEQ ID NO:1706, b is an integer of 15 to 1442, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1706, and where b is greater than or equal to a + 14.</p>	<p>AI797081, AI669186, AI9222708, AI400881, AA156853, AA062971, AW027338, AA431360, AI091639, AI627975, AI358574, AI202381, AA255522, AW086138, AA890259, AA806628, AA255565, AI367251, AA088310, AA765366, D63210, AI796381, H48099, H48098, AA720634, AL079437, AI758780, AI911927, AW022560, AA256707, AA737329, AA255588, AA877667, AA455364, AA813874</p>
1707	HCRND67	877013	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 794 of SEQ ID NO:1707, b is an integer of 15 to 808, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1707, and where b is greater than or equal to a + 14.</p>	<p>AA648907, AW001743, N40531, AI978754, AI446119, AI949312, AA252030, AA521447, AW024768, AI039280, AI962419, AI935656, AI416968, AI361764, AA860961, AI127900, AI936802, AI761487, AI580311, AI917267, AW024010, AI189597, AI864624, AA131263, AI351462, AI422420, AA904280, AI636058, AA931114, AA648498, AI767707, AW262532, AA191430, AI312828, AA860568, N46577, AA804488, AI680207, AA628794, N45139, AI694810, AA574232, AI522273, AI362932, N46583, AA364681, H91961, N40538, W22178, H99173, W22807, AA829581, AL046944, R79750, AC005325</p>
1708	HSPA101	877014	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1041 of SEQ ID NO:1708, b is an integer of 15 to 1055, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1708, and where b is greater</p>	<p>AI378753, N35689, AW207088, AW151846, W49562, AI457284, N35406, W49563, AA334557, R58493, H24416, AI678442, AI791556, AA242954, R30676, AW022665, R47185, AL031652, L41349, L13935, L13936, L13937, L13938, AL117633, L15556, L18962, AF027571, AF031370, U57836</p>

1709	HOSXA83	877015	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1030 of SEQ ID NO:1709, b is an integer of 15 to 1044, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1709, and where b is greater than or equal to $a + 14$.</p>	AA100220, AI167817, AA113216, AA324768, AA085997, AA149087, AI493421, AA629345, AA625949, AA149086, AA669959, AA431870, AI866312, Z28464, AA172371, AW173386, AI183937, AA431871, AA262957, AL036908, AI271960, AA085643
1710	HAVTF85	877018	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 881 of SEQ ID NO:1710, b is an integer of 15 to 895, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1710, and where b is greater than or equal to $a + 14$.</p>	AL037339, AA811927, AI720889, AA926797, AL039480, AA442561, AA858311, AI566218, AA846839, AI583216, AI635043, AA699924, AI192601, W69310, AI262270, AA526986, AI304664, AI310345, W69206, AI147372, AA973817, AI431515, AI818856, AI033497, AA983644, AW129307, AA701244, AA926804, AA630163, AI289870, AI061307, AA554361, AI566853, AI262295, AA031671, AI092076, AI280857, W73760, AW074354, AI924486, AI367351, AA304674, N75814, AA678529, AA130266, AA808417, W68377, N50405, AA831659, AA907418, N50457, T89689, N75514, AI244342, AI445788, AA365398, R55802, AA853796, AI632051, AA291486, R28626, W68336, H29812, R52537, R42369, H02369, F02630, AI686839, AA188995, F03753, AW236685, F04385, W73593, AA728837, C02595, AA653337, AA883260, R43407, T29673, AI471055, AA190445, AI567050, AA031670, AI246665, AI658622, R33489, AI932403, AL041862, AI452556, AI923989, AW188793, AL042745, AW071349, AL046356, AI554245, AI119748, AL079977, AI815232, AL046926, AL040243, AI434223, AL047675, AI866573, AL042628,

	AI933785, AI433976, AL045500, AI433157, AL042744, AW151136, AL047092, AI539771, AI500523, AI538716, AI537677, AI500659, AI554821, AI801325, AI582932, AI284517, AI500706, AI445237, AI491776, AW151138, AI521560, AI889189, AI500662, AI284509, AI889168, AI633493, AI434256, AI888661, AI284513, AI569579, AI888118, AI440252, AW129106, AL042787, AL045266, AL042551, AI432666, AW150578, AI800453, AW132001, AW071417, AI620284, AI800433, AL042627, AI866510, AL045620, AI826225, AI805769, AI275175, AW020693, AI537515, AW301505, AL049085, AI499463, AI610362, AI491852, AI889148, AI889147, AI432656, AI812015, AW082113, AI440239, AL042538, AI627893, AI538342, AL045891, AL045774, AI269862, AW196105, AI251221, AW268122, AI436429, AI537273, AI436456, AW081255, AW080379, AI963846, AI520702, AI567940, AI817244, AL039276, AI612913, AI805385, AI811785, AI494201, AI285826, AI863014, AI521594, AI499512, AI815855, AI636372, AI889133, AW005858, AI630252, AI567993, AL047422, AW088899, AI133559, AL045163, AL037454, AI344928, N80094, AI610429, AW162071, AI539632, AI564765, AI610402, AI539847, AL079963, AI567935, AI349772, AI364788, AL041150, AI698401, AW079572, AW161579, AI539028, AL036638, AA225339, AW083804, AI049851, AW169671, AI686906, AI866608, AI537617, AL036736, AI284131, AL036802, AI783504, AW190042, AI648663, AL121286, AW073994, AI889953, AI345608, AL048377, AI680162, AI862144, AL040097, AI567360, AA572758, AW088134, AI539153, AI698391, AI612885,

	AI539238, I48979, AL110225, AL122049, I48978, AL122098, I89947, AL133072, AL117460, U42766, AL133016, A12297, AL137271, A08916, AL122050, A08913, A08910, A08909, AF078844, I33392, AF111851, AL110221, AF118064, AL050024, AF067728, AL049283, AL133080, I89931, AL050277, AF017152, S68736, AF146568, AL050138, I49625, AF177401, I03321, AL049430, AL117585, AF090896, AL122093, AL122110, Y11587, AF113689, AL137557, AL137560, AF113013, AL122123, AF113694, AL133560, AB019565, U91329, Y11254, AL133640, AL117457, AL133077, AL080124, AL133606, AF113677, AL137550, AL137459, E07108, AL050108, X82434, E03348, AL049938, U80742, Y16645, AJ000937, AL049314, S78214, AL133075, AL096744, AL117435, AL133565, AF079765, U00763, E07361, AF113690, AF090943, AF118070, AF113699, AL137648, AF113691, AL133557, AL050116, AF125949, AL137527, AF106862, X98834, AF113019, A93016, AF090934, AF158248, AL122121, AF091084, AL117583, AF183393, AL133568, AL117394, AL133113, I26207, U35846, AF118094, X84990, AL080127, AL050393, X63574, AJ012755, X96540, AL133104, AF097996, AF090903, AF113676, AF090901, U72620, AL080060, X72889, AL133093, AJ242859, AR059958, AL137538, AJ238278, I00734, AF125948, AL080137, AF104032, AL049466, AF017437, AL049452, AL110196, A77033, A77035, X70685, E02349, E15569, A93350, AF090900, E00617, E00717, E00778, AL050146, AL137463, A65341, AF087943, AL049382, I42402, Z82022, AF026124, AL133014, X65873, A03736, AL137521, A58524, A58523, AL050149, AF111112, AR011880, I09360, AL050172, AL049464, L31396, L31397, AF061943, X93495, A08912, AL137476, AL049300, U67958, AF119337, AL137283, AL080159, AL110197,

1711	HTEPJ45	877019	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1600 of SEQ ID NO:1711, b is an integer of 15 to 1614, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1711, and where b is greater than or equal to a + 14.</p>	<p>AL137533, I09499, AF026816, AR038969, AL137526, AR000496, U39656, L13616, E08263, E08264, S61953, A90832, Y09972, U49908, AF003737, E04233, Y14314, AL110280, AL137556, AF153205, AF185576, AL137523, A07647, AF057300, AF008439, AF057299, A45787, AL080148, AJ006417, AR038854, AL133067, U58996, E02221, AL137480, Z72491, AL080074, X53587, E05822, AL133098, AF079763, E08631, AF061573, AF162270, L30117, M30514, AL117440, AL137273, Y07905, AL137292, AL137478, I17767, U96683, X83508, AL023657, AF111849, U68387, AR013797, X87582, AF106827, AL137294, AL133049, AL117432, I41145, X62580, AL133081, L05186, E12747, AL050092, AL110222, AR020905, AF132676, AF061836, X52128, U78525, AL137488</p> <p>AW135340, AI908516, AW003833, AI692953, AI693316, AW242982, AI194008, AI672260, AI497695, AW242975, N63914, AW242988, AI341520, AI972371, AI373504, AA705554, AI633950, AI276537, AA699365, AI989919, AW204605, H11413, W00441, AA279329, AI656862, AI961706, AA455604, F28946, AI678125, W20411, N98286, H08430, AA455968, W32633, AA528280, AI702940, H85245, T95059, H08429, F13395, T81953, F37163, AA215977, AA301556, T95155, F11101, T77655, H11389, AA279895, AW196491, AI915713, N80005, AA806720, AI802542, AI624279, AW198090, AI584140, AI890223, AI612913, AI648509, AI439717, AI572676, AI702406, AI497733, AW104724, AI886124, AL121328, AI254731, AI224027, AW087445, AW168795, AI934011, AI539687, AI537677, AW262565, AI569616, AI801766, AI610402, AW071349, AI811344, AI520785, AI680498, AI591316, AI554818, AI468872, AA225339, AI269205, AI566670, AI824746, AL079963, AI433976, AI269862,</p>
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	AL042628, AI636588, AI619502, AW129659, AI554427, AW132056, AI567846, AI440239, AL119863, AL040243, AI491852, AI539771, AI500077, AI637584, AI364788, AI249257, AI559296, AI859511, AI873604, AI701074, AI890833, AI926790, AW170635, AI564719, AL045266, AL134830, AI677796, AW130776, AI569583, AW026882, AI538085, AW149311, AI433157, AI702073, AI284484, AI273048, AI934036, AI679990, AI868831, AI950664, AI475371, AI571909, AI247193, AI498067, AI280747, AW023590, AW088903, AI633419, AI280751, AI540832, AL045500, AL041150, AW193000, AI587143, AI270055, AW090013, AI627360, AI318280, AI633125, AW150578, AI673785, AI439745, AI536638, AI590120, AI274508, AW302988, AI863014, AL036361, AI275175, AW051258, AI282504, AI362637, AI537024, AI610362, AI274013, AI590118, AI815855, AL046944, AI648663, AI620284, AI568296, AI281837, AI475451, AW081036, AI922901, AL043981, AI434223, AI097248, AI702068, AI269696, AW301409, AI866608, AI254042, AI284517, AI475394, AI862139, AI687362, AI917055, AI500659, AI539808, AW169653, AI476109, AL047763, AI590021, AI801325, AI500523, AA807352, AI624206, AL121270, AI270707, AA470491, AI857296, AI500706, AL039276, AW169671, AI801152, AI536685, AI491776, AI445237, AI349004, AW151138, AI696612, AI828731, AI570989, AI500662, AW274192, AI564247, AL110402, AI499285, AL041573, AI889376, AI784252, AW268220, AL043326, AI524671, AW008048, AI921248, AI554344, AI955917, AI570909, AI648454, AI572787, AI445025, AI433037,

	AL121463, AI884469, AI648684, AI612759, AI560099, AI064830, AA835801, AL043975, AI469532, AI500146, AI680165, AI573032, AI872711, AW148716, AF013168, D87683, AC002096, I89947, Y16645, AL122050, AL137550, I48979, AL133557, I48978, AL110221, AF090943, AF017437, AF111851, AL050393, AL117460, AL117435, AF090934, A08916, AL122123, Y11254, AL137459, X84990, A08913, AL049382, AF090900, AF090903, AF118070, AL133075, AF113677, AL080124, AF158248, AF113019, A65341, S68736, AL137527, I89931, AL117457, I49625, AL050138, AF113694, U42766, AF113690, AL133080, AL117585, AL050149, AF090901, A77033, A77035, AL049452, AL122093, X82434, AL137557, AL050116, AF146568, AF104032, S78214, AL110196, AJ000937, AF079765, AL049314, AF017152, AL096744, AL133016, AF078844, AL133606, E07361, AL133640, E02349, AF113676, AL080137, Z82022, AF125949, AF090896, X63574, Y11587, AF113013, L31396, L31397, AF091084, AF106862, AL050277, A08910, AF177401, AL122121, E03348, AF183393, AF125948, AL050108, AF118064, AF113691, AL049466, A93016, AL133560, AJ238278, AL050146, AL110225, AL137283, AF113699, AL117394, AL080060, AB019565, AL133565, AL049464, AF113689, AL133093, AR059958, AR011880, AJ242859, AL049300, AF097996, E07108, AL049938, AL117583, U91329, AF118094, X93495, A58524, A58523, I33392, A08909, AL122098, AL133113, AL050024, AL049430, AL122110, U00763, AL137271, AL137538, X70685, AL137648, I03321, X72889, AL137463, A08912, AL080127, A12297, U35846, AJ012755, U80742, AF000145, X96540, U72620, A03736, X65873, AF061943, AF067728, AF119337, AL049283, AL080159, AL133014, X98834, AF087943, AL133568, AL133072, AF111112,

1712	HOSBX95	877020	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 516 of SEQ ID NO:1712, b is an integer of 15 to 530, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1712, and where b is greater than or equal to a + 14.</p>	<p>AL122049, AL137521, I09360, AR000496, U39656, I42402, E08263, E08264, AL122111, AL133067, U67958, AL110197, E15569, A93350, AL137533, AL137523, AF057300, AF057299, AF026124, AF153205, U58996, AF079763, AL133077, E05822, AL137560, AL137480, AR013797, Y09972, AF026816, I26207, AL050172, S61953, AL137556, AL137526, I00734, E00617, E00717, E00778, U68387, E02221, I66342, A08911, Z37987, AC006371, Y14314, AR038969, A07647, AL110280, AL137429, AL080074, Z72491, AL137292, AL137476, Y10655, AF003737, U78525, AL080148, U96683, AL133104, AF100931, E06743, AF106827, AF159615, AF185576, X87582, I17767, A45787, AF061981, AL133558, AF111849, AL137488, AF162270, E08631, AL122118, Y07905, AF061573, AL133665, M30514, AL117440, AR038854, AC005992, AL122045, AF095901, AJ006417, E04233, AF118090, AL133098, AF081197, AR054984, AL133081, I09499, AL110222, L30117</p> <p>AW393918, N56766</p>
1713	HSIFP30	877022	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a</p>	<p>AI678780, T98311, R10554, AF209389</p>

1714	HE9HL05	877023	<p>is any integer between 1 to 714 of SEQ ID NO:1713, b is an integer of 15 to 728, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1713, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1581 of SEQ ID NO:1714, b is an integer of 15 to 1595, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1714, and where b is greater than or equal to a + 14.</p>	<p>AI114634, AI310154, N48237, AI040784, R96774, R91077, AA333785, AA334375, T82801, AA678184, T95816, AI678780, T96750, R91078, AA344220, R09895, T74622, T68354, N49552, AA332963, AI023306, T71511, T95519, R92515, T60367, AI791396, AW172723, AI815239, AI362332, AI249946, AA665587, AW078729, AI805769, AW265004, H42825, AI669639, AI608802, AW074274, AI702540, AI499104, AI758816, AW263799, AI886163, AI476147, AI677797, AW026633, AI816956, AI677647, AI911645, AI961622, AI250175, AA614660, AI244380, AI446124, AI492528, AI869750, AI921609, AI699154, AI270039, AI040725, AA810969, AW189003, AW087898, AI446564, AI419311, AI612723, AI627390, AI364220, AI572418, AW410769, AI628855, AI446110, AI872810, AI471424, AW150505, AI570195, AW150351, AW118457, AI694855, AI419417, AI369029, AI474427, AI568870, AW079656, AA088789, AI521128, AW168031, AI660848, AA910956, AI701948, AI589433, AI805385, AI591381, AI333552, AW263697, AI679622, AI683465, AI610645, AI952302, AI625231, AI696626, AI890714, AI347569, AI671638, AI560514, AW193020, AF209389, J04813, M18907, X12387, M14096, E02555, D31921, D00408, E02532, J04449, S53047, X90579, M13785, AF182273, L26985, X54915, U59378, AF109068, Y10214, M73992, Y11995,</p>
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1715	HWLMB91	877024	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 577 of SEQ ID NO:1715, b is an integer of 15 to 591, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1715, and where b is greater than or equal to a + 14.</p>	<p>AF204959, AF185589, D11131, S74699, S74700, L35912, I12087, AF067420, A94751, U77594, AL137561, AC004455, AF109906, U92068, A69673, A69681, U89906, AF106934, AF059612, AL133645, AR068182, AL137659, AC005284, AC007370</p> <p>AI188270, AI742085, AI167453, AW204725, R53616, R48325, AA347732, AW341017, AA579588, F35057, AA768452</p>
1716	HOVEE11	877025	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1960 of SEQ ID NO:1716, b is an integer of 15 to 1974, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1716, and where b is greater than or equal to a + 14.</p>	<p>AI762892, AI760766, AI174624, AW081757, AI824008, W94214, AI189223, AA447177, AI9277354, AA443809, AI307319, AI299589, AI372949, N30895, W81043, AI934550, AA605197, AW390982, AI168782, W81079, N56763, AW374587, W72920, AI538814, AW079505, AW137328, AA629096, AI699821, AI767317</p>
1717	HCYBN69	877026	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 545 of SEQ ID NO:1717, b is an integer of</p>	<p>AA127756, AA769607, AA305740, AW403303, AA361909, D81026, D81030, C14389, D80522, C15076, D80133, D80166, D80193, D80212, D59502, D80195, D80022, D80164, AW377671, D80391, C14331, D59787, D59619, D80038, D80210, D80196, D58283, D80269, D80240, D59467, D59275, D59859, D80227, D59927, D80219, D51423, D51799, D80253,</p>

<p>15 to 559, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1717, and where b is greater than or equal to a + 14.</p>	<p>D80366, D80043, D57483, D80188, D50979, D80045, D80248, D80378, D59889, D80024, D80258, AA305409, D59610, D50995, C14429, D59627, D80251, D80241, D80268, AA305578, D51060, D59373, D51022, C06015, AA514188, C75259, AW177440, D80014, D80439, D80302, C14014, AW360811, AW178893, AA514186, D80247, T03269, D80132, AW375405, T02974, D80157, AW179328, D51213, D59503, AW178983, AW378532, AW366296, C14227, C14077, AW360844, D58101, AW360817, AW375406, AW377676, D51103, AW378534, AW179332, AW377672, AW177501, AW179023, C05695, AW178905, AW177511, AW137066, AW178906, D80064, D81111, AW178762, D80134, D51250, D51759, AW176467, AW352171, AW352170, D58253, AW360834, AW177731, AW178775, AW178907, AW378528, AW179019, AW179024, AW369651, AW367967, AW352158, AW177505, AW360841, AW352117, AI243347, AW179020, AI239543, AW178909, AW177456, AW179329, AW178980, AW178914, AW177733, AW178908, AW178754, AW179018, F13647, T48593, C14407, D59653, AW179004, AW179012, AW178774, AW378525, AW352163, AI910186, AW352120, AW352174, AA805151, C14298, D45260, D80168, AW179009, AI905856, AW178911, AW378543, AW177722, AW177728, C03092, D58246, AW378540, AW378539, AW367950, AI557751, AI525923, AA809122, H67854, T11417, H67866, AW178781, AW177508, AI557774, T03116, D59695, D59317, D80949, AI525917, Z21582, AI535850, AW178986, AW177497, D45273, D52291, AW177723, C14344, AI535686, D59474, AW179011, D59551, C14973, AA514184, AW378533, AA285331, D51221, T03048, AI525920, AW177734, D60010, D60214, AI525227, D51097, D51079, C14957, C14046, AI525925, AI525242, AI525235, AI525222, AI525912,</p>
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1718	HWLWN2 4	877027	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 820 of SEQ ID NO:1718, b is an integer of 15 to 834, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1718, and where b is greater than or equal to a + 14.</p>	<p>AI525215, AW378542, CI3958, CI6955, C05763, Z33452, AC005035, AB013385, AL137755, AF096300, AB014587, U88984, A84916, AR018138, AJ132110, A62300, A62298, AF058696, AB028859, AR008278, A82595, A67220, AR060385, AB002449, X67155, Y17188, D26022, A25909, Y12724, D89785, A78862, D34614, A94995, D88547, AR008443, I50126, I50132, I50128, I50133, I82448, X82626, AR016808, AR066488, AR016514, AR060138, A45456, I14842, A26615, AR052274, AR038669, AR025207, Y09669, A43192, A43190, AR066487, A30438, AR054175, D50010, AR066490, Y17187, I18367, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, AB012117, D13509, X68127, I79511, A64136, A68321, AR060133, A85396, D88507, AR066482, A44171, A85477, I19525, A86792, X93549, U79457, AF123263, X72378, AR032065, AR008382</p> <p>AI301935, AI760340, AI921888, N30193, AA748734, AI743279, AI284147, AA648777, AW304324, AI916877, AA732729, AA971316, AI218098, AA993916, AA504339, R66801, AA648769, R67901, N40188, R27573, R27672, AI802542, AW403717, AI440239, AI919345, AI612913, AI619502, AI564719, AL048656, AL040243, AW026882, AI433157, AL047763, AI270055, AI499393, AI249497, AI445025, AL045500, AI475371, AI811344, AI539771, AI635942, AI912288, AI934011, AI560099, AW104724, AW071417, AW129659, AI805638, AI521012, AI702433, AW103371, AL119863, AI889376, AI648663, AI868831, AI569583, AW169653, AW150578, AL047042, AI884469, AI637584, AI499131, AI625079, AW082040, AL119791, AI497733, AI635461, AI318280, AI445432, AI340627, AI536685, AI587114, AL043293, AI954183,</p>
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AI687728, AW302988, AI815855, AI524671, AI590021, AI207510, AI539780, AI610645, AI620284, AI818683, AI273142, AW169671, AI687127, AW301409, AI573032, AI687362, AW090013, AI866608, AL036361, AI682971, AI633419, AI921248, AI469532, AI498579, AI866002, AI433976, AI828731, AW166970, AI580190, AI432969, AW102785, AI612759, AL049085, AI696398, AI571909, AI677796, AI799470, AI909697, AL045163, AI636719, AI539153, AA640779, AW238730, AI439745, AI471712, AL121463, AA572758, AI702073, AL036802, AI926790, AI591316, AI952360, AW268220, AI654750, AW020693, AI340603, AI697137, AI537677, AI922901, AI349004, AI312428, AW075667, AI815232, AI269696, AI888501, AI812107, AI800453, AI340582, AI800433, Z99428, AI888953, AI567128, AW075413, AI570781, AI567993, AI349645, AW074869, AI590120, AW149227, AL036274, AI345131, AW087534, AI309401, AW103893, AI561299, AL036403, AW148408, AI343112, AL121014, AI284517, AW071349, AI207572, AL121270, AW301300, AI349598, AL036664, AW075207, AI636456, AI648684, AW151136, AI345735, AI554427, AL036396, AI536638, AI349933, AI250293, AI524526, AL047041, AL038565, AL036980, AI445165, AI348897, AA427700, AW148716, AI702406, AI174394, AL041573, AI313320, AL038605, AI610690, AI500077, AW302992, AW089572, AI609594, AI862144, AI312146, AI312339, AI284131, AI269862, AI366549, AW086113, AI869367, AI520785, AI887396, AI610307, AW268251, AW268253, AI887659, AL036146, AW301505, AI753683, AA835801, AL045266, AL079963, AI434281,				
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			AI636585, AI439762, AL036631, AI538716, AI934035, AI799199, AI537303, AI800185, AL041772, AI783504, AL036214, AW149311, AW148320, AW087445, AA470491, AI828682, AI349772, AI224992, AW088903, AA225339, AI909641, AI281773, AL041150, AI690312, AW022682, AI567351, AW074993, AW302965, AI784252, AC006313, I48979, I89947, S68736, AF125948, AF104032, AF090934, U42766, AC006222, AL133640, AF017152, AF090903, AL117457, A08916, AL050149, AF090943, AL117460, AF090901, AF090900, AL050116, I48978, X84990, AL133606, AF118070, AF113013, S78214, A08913, I89931, AL137459, AL122093, AL050277, Z82250, AF078844, AL110221, Y16645, AF118064, AL122050, AF177401, AF113694, AL049452, AL133557, AF113690, AF113019, AF113677, Y11587, AL080137, AL122123, AF113699, AL133016, E03348, AF113689, AL049430, AR059958, AF158248, AF146568, AC006482, AL122121, AL137557, I49625, AL133075, Y11254, AL050108, AL110196, AL049314, AJ000937, AL133080, AF125949, AL050393, AL133565, X63574, AF106862, AL080060, A08910, A93016, AL049938, AL050024, E04233, X70685, AF113691, AL096744, AL133560, AL050146, AL137527, AR011880, AL137283, AJ242859, AL080124, AF090896, AL049382, AF111851, AF113676, AL117394, AB019565, AL049466, AL133093, A65341, AJ238278, U00763, AF091084, I03321, AF097996, AL049464, A08909, X96540, AC006501, L31396, AL110225, L31397, AL122110, AL117583, X72889, E07361, X82434, AL117585, AL133113, X65873, AL137521, AF017437, AL137550, AL050138, AL117435, AF079765, U91329, A58524, A58523, AL049283, E07108, AF087943, E02349
1719	HOSOZ37	877029	Preferably excluded from the AA452295, AI700341, AA039713, AW274555,

			<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 792 of SEQ ID NO:1719, b is an integer of 15 to 806, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1719, and where b is greater than or equal to a + 14.</p>	<p>AW118151, AI684403, AI040232, AI435785, AW023346, AA039712, AI932286, AI089086, AW021748, AA582100, AW020316, AW300014, AA886794, AI492312, AI492311, AL034350</p>
1720	HCROD37	877030	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 491 of SEQ ID NO:1720, b is an integer of 15 to 505, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1720, and where b is greater than or equal to a + 14.</p>	
1721	H2LAF20	877031	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 665 of SEQ ID NO:1721, b is an integer of 15 to 679, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1721, and where b is greater than or equal to a + 14.</p>	<p>AI474074, AA313945, AW382674, AI475856, D81026, D80522, D80166, D59619, D80210, D80240, D80133, C14389, D81030, D80219, D51423, AA305409, D80195, D80212, D59859, AW377671, D51799, D80253, D80164, D80251, D58283, D80022, D80248, D50979, D80193, D80188, C14331, D80391, D59787, D59502, D59467, D59275, D80043, D80227, D59610, D57483, D80366, D80196, D59889, C15076, D80024, D80038, D59927, AA305578, D51060, D80269, D51022, D50995, AA514186, D80241, D80045, D80378, AW177440, C14014, AA514188, C14429, AW178893, AW360811, D59373, T03269, T11417, C75259, AW179328, C14077, AW375405, C05695,</p>

	D80132, AW378532, D80268, AW366296, AW360844, AW360817, AW177501, AW375406, AW177511, D80439, AW378534, D80302, AW179332, AW377672, AW179023, AW178905, D80134, AW178762, D58253, D51250, AW178980, AW178775, AW352171, AW377676, AW352170, AW177731, D80247, AW178907, AW369651, AW179019, AW179024, D59627, D80258, AW352158, AW177505, AW352117, AW178906, AW176467, AW179020, AW360841, C06015, AW178909, AW177456, AW179329, AI910186, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, F13647, D80157, AW179004, D58246, D58101, AW179012, AI738909, AW178914, D80014, AW378525, D51103, AW367967, D51759, D51213, AW378543, D59503, AW177728, AI905856, AW179009, AW178774, AW178911, AW177722, AW352163, D80064, D59653, Z21582, AW360834, AW178983, D81111, AW178781, T48593, AW378540, D45260, C14227, AW177723, AW352120, T02974, C14975, H67854, H67866, AI535850, AA285331, AW378533, AW367950, D51097, C14298, C03092, AA809122, AW177508, AI525923, C14407, T03116, D51221, AI525917, D80228, AW178986, AW177497, D59317, AI557774, D59474, D45273, C14973, AW177734, AI557751, AI525920, C14344, D50981, AA514184, AI525215, AW378539, AW270229, D60010, C14957, D80168, AI535686, AI525235, D59551, D60214, AI525227, C14046, D80949, AI525912, T03048, D59695, AI525222, AI525242, D52291, AW378542, AI525925, D51079, D51053, C16955, AI535961, C05763, Z33452, H67858, Z30160, AF067806, AF056490, AR008278, A62298, AR018138, A84916, A62300, AJ132110, AF058696, AB028859, X67155, Y17188, D26022, A25909, Y12724, A67220, D89785, A78862, D34614, A82595, D88547, AR060385, A94995, X82626, AR008443, AB002449, AR025207, I50126, I50132,

1722	HCRODI5	877032			I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, Y09669, A43192, A43190, AR038669, AR066490, A30438, AR066487, AR016691, AR016690, U46128, AB012117, I18367, I14842, AR054175, D50010, Y17187, X68127, AR008277, AR008281, A63261, A85396, D88507, AR066482, A44171, A85477, AR008408, I19525, A86792, AR062872, A70867, X93549, D13509, A64136, A68321, AR060133, I79511, U79457, AF123263, AR032065, AR008382
1723	HS2SGI8	877034		Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 605 of SEQ ID NO:1722, b is an integer of 15 to 619, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1722, and where b is greater than or equal to a + 14.	AA307890
1724	HMCHW1 2	877037		Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 838 of SEQ ID NO:1723, b is an integer of 15 to 852, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1723, and where b is greater than or equal to a + 14.	AA633529, AA307645, AL137945, R78416, AA143592, AA699829, AA130430, R23973, AA204937, T58303,

	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 683 of SEQ ID NO:1724, b is an integer of 15 to 697, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1724, and where b is greater than or equal to a + 14.</p>	AA205080, AI581369, AA130456, H03662, R77222, C05254, H75671, H70965, AA134504, AI733734, AA133084, AI733757, AA088546, AA553526, AA843823, AW392930, AI522161, AA055592, R66492, R31147, AI820789, AI732411, T92637, H39731, W38856, AI499378, AA151971, AI940502, AA085899, AA224498, AA479719, AA100721, AP000365, M27826, AL050348, AL035419, AC005276, AL121782, AL080316, AC007617, AC010168, AC008069, AC000064, AC002984, AB020874, AC007401, AC007566, AC005150, AC005145, AC007022, AL035067, AC000114, AC007685, AC005549, AC007207, AC006146, AL031767, AC008072, AC002530, AF130342, AL035408, AC002066, AC007681, AC008134, Z92543, AJ133269, AC005386, AL049546, AC004998, D11078, AC004986, AL035698, AC006502, AL031256, AC004823, AC007876, AC005090, AC004514, AC005837, AC003013, AL009031, AC007463, AC009946, AC006364, AC007250, AC005410, AC004875, AL109620, M18048, Z82210, AL139054, AL022068, AL121718, AC007381, AL049872, AF118808, AC005699, AL031671, AL023877, AC005036, AL009050, AC003009, AL034409, AC004925, AC007870, AC004768, AC004456, AL133224, AF146191, AF212831, AC005307, AF053936, Z71183, AC012380, AC007486, AC007537, AC004072, AL133321, AC003078, AC007450, AB020871, AL021327, U80460, AC008062, AC007106, AL021940, AF070717, AL024495, AC004103, AC005234, AC004025, AC004817, Z78021, AF049895, AC006382, Z95327, AL031073, AL117327, AC005392, AC007001, AL035610, AC002384, U95626, AC007785, Z99495, AL109809, AF149773, AF068862, AC005102, AC005154, AL050339, AC004835, AL034452, AC005531, AC005576, AC004915, AL109967, AC004617, AP000230, AP000144,
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1725	HWLVS52	877043	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 454 of SEQ ID NO:1725, b is an integer of 15 to 468, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1725, and where b is greater than or equal to a + 14.</p>	<p>AL022318, AC004858, AC007276, AF109907, AC004510, AC011604, AC005723, AL079352, AC002326, AL132987, AF011889, AL049544, AP000013, AP000155, AL050325, AC007182, AL035690, AC006582, AC004924, AC007447, Z76735, AC006459, D87055, AC004472, AP000501, AC005002, AF205592, AC005686, AL133371, AF026248, AF026254, AF026249, AL022330, AC004032, AF108842, AF110315, AF108841, AF108843, AC007280, Z83818, AL034350, D10083, AC003007, AC005632, AF064074, AF064073, AC007556, AC004889</p>
1726	HCRPG56	877044	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 468 of SEQ ID NO:1726, b is an integer of 15 to 482, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1726, and where b is greater than or equal to a + 14.</p>	<p>N23653, AI608674, AC006432, AC009533, AC008013</p>
1727	HTAHC75	877046	<p>Preferably excluded from the</p>	<p>AI916318, AI698170, AI346506, AA481006,</p>

1728	HCRPH26	877047	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1883 of SEQ ID NO:1727, b is an integer of 15 to 1897, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1727, and where b is greater than or equal to a + 14.</p>	<p>AW006462, AI808371, AI492123, AI860659, AW083792, AI298294, AI377296, AI299866, AI143985, AI832385, T66213, AA315944, AA774467, AA481745, AA745359, N78840, AA744416, AA035644, AW236811, AI693629, AI299645, R54532, AA987358, AA745453, AW136153, AI889513, AI917565, H28998, AI459849, R55684, R99148, AA975345, R45317, H08045, AA992883, AI122963, AA987223, H18288, AI681364, R55685, F09827, H46943, AW418590, R88200, AI745480, H48447, AA744390, Z45158, AW192055, AA972155, R14680, F04052, AA827984, FI2197, H26802, T29943, AA295772, R38093, AI290682, AL047550, T07816, AA355247, H07939, H69808, R38173, T85773, R54435, AA508768, AI382544, R20497, AI984917, AW294367, AA090326, H51338, F11088, AA916514, T77104, R42403, N84369, T66146, AI910252, AI127423, AW131840, AA702500, AA300937, AF007155, AA508781</p>
1728	HCRPH26	877047	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 509 of SEQ ID NO:1728, b is an integer of 15 to 523, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1728, and where b is greater than or equal to a + 14.</p>	<p>AF118076</p>
1729	HWLWL67	877049	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 204 of</p>	<p>AI375746, AI620255, AI739424, AW008095, N64373, AA628778, AI827544, AI246150, AA977500, AA779757, AI216037, AA724806, AI143969, AI740635, AA953515, AA938880, AA421570, AA971965, AA010881, AI352432, AA410372, AW082274, AA129683, AI699673, AI807260,</p>

			SEQ ID NO:1729, b is an integer of 15 to 218, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1729, and where b is greater than or equal to a + 14.	AI375466, AI633645, AA588195, AA670218, AA487274, N64317, AW118102, AA449233, AL133312
1730	HOSDU39	877050	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 566 of SEQ ID NO:1730, b is an integer of 15 to 580, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1730, and where b is greater than or equal to a + 14.	
1731	HCROS68	877051	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 623 of SEQ ID NO:1731, b is an integer of 15 to 637, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1731, and where b is greater than or equal to a + 14.	AI940522, AC007688
1732	HWLRT47	877052	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 409 of	AA676521

1733	HCRPN44	877056	SEQ ID NO:1732, b is an integer of 15 to 423, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1732, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1267 of SEQ ID NO:1733, b is an integer of 15 to 1281, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1733, and where b is greater than or equal to a + 14.	AI814630, AI659745, AI337185, AI476215, AW014950, W90223, AI683180, AI040605, AI0521156, AW419172, N20981, N92247, AI583402, N51526, H64280, H64281, H21597, AW117231, W37142, W47567, H65040, Z40718, H65039, W86558, W90127, W47547, AI572195, W86559, R08722, R08628, M79050, R16990, AA002167, AC005736, AB011092, AC007151, T87129, T99488, R87793, H50980, H66212, H66857, N30250, W15238, W15419, AA024406, AA076483, AA099706, AA513421, AA535580, AA593084, AA593075, AA639881, AA766869, AA809957, AA828815, AA922533, AA705190, AA775052, AA854917, AI085171, AA952891, AA952941, AI307637, AI348056, AI203039, AI380800, AI473584, AI571026, AI424140, AI219098, AI659256, AI636785, AI338942 AI167356, AL049670, AL021397
1734	HCRPD33	877057	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 261 of SEQ ID NO:1734, b is an integer of 15 to 275, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1734, and where b is greater than or equal to a + 14.	
1735	HCRPE57	877058	Preferably excluded from the present invention are one or more	AA989345, AI624083, D61985, N67616

			<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1017 of SEQ ID NO:1735, b is an integer of 15 to 1031, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1735, and where b is greater than or equal to a + 14.</p>	
1736	HCRNJ46	877059	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 324 of SEQ ID NO:1736, b is an integer of 15 to 338, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1736, and where b is greater than or equal to a + 14.</p>	
1737	HWLRC59	877063	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 412 of SEQ ID NO:1737, b is an integer of 15 to 426, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1737, and where b is greater than or equal to a + 14.</p>	<p>AA984838, F12786, AA224052, T75215, T77343, AC005919</p>
1738	HLHCD08	877065	<p>Preferably excluded from the present invention are one or more</p>	<p>AA195002, AA194815, AI916670, AW440382, AI884584, AA843585, AI653656, AW130944,</p>

1739	HWLVE77	877066	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 778 of SEQ ID NO:1738, b is an integer of 15 to 792, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1738, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 454 of SEQ ID NO:1739, b is an integer of 15 to 468, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1739, and where b is greater than or equal to a + 14.</p>	<p>AW303456, AA456790, AI051183, AW152159, AA130046, R79256, AW439608, H22118, AA134040, T18594, H44350, AI784396, R76637, T79450, T79540, T97240, T97241, R51919, AW079574, C00464, AI699839, AI689564, AL046171, AI702873, R79157, AI905847, AA129873, AA356980, AA351418, T09084, AW248101, AI929724, AI815427, W27745, D85131, M94046, AB017335, M93339, U33819</p>
1740	HCROJ64	877067	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 93 of SEQ ID NO:1740, b is an integer of 15 to 107, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1740, and where b is greater than or equal to a + 14.</p>	
1741	HWLQM0 5	877068	<p>Preferably excluded from the present invention are one or more</p>	

			<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 471 of SEQ ID NO:1741, b is an integer of 15 to 485, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1741, and where b is greater than or equal to a + 14.</p>	
1742	HCRPW24	877069	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 398 of SEQ ID NO:1742, b is an integer of 15 to 412, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1742, and where b is greater than or equal to a + 14.</p>	AC004540
1743	HOCTA26	877070	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 380 of SEQ ID NO:1743, b is an integer of 15 to 394, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1743, and where b is greater than or equal to a + 14.</p>	AA906013, AW392670, U46347, Z99396, AW363220, AW384394, AW372827, AL119484, AL119457, AL119319, AL119363, AL119497, AL119324, AL119391, AL119355, AL119341, AL119483, AL119443, AL119522, AL043003, U46351, U46349, AL119439, AL119444, U46350, U46341, AL119396, AL119335, AL119496, AL134533, AL134528, AL037205, U46346, AL119418, AL043033, AL042614, AL134153, AL134531, AL042984, AL042965, AL042975, AL119399, AL134538, U46345, AL042450, AL134542, AL042544, AL043019, AL043029, AL042542, AL134132, AL042551, AL043147, AL119304, AL119464, AC015853, AR060234, A81671, AR066494, AB026436, AR054110, AR069079

1744	HBKDB96	877071	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 939 of SEQ ID NO:1744, b is an integer of 15 to 953, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1744, and where b is greater than or equal to a + 14.</p>	<p>AA812993, AI368842, AI0222649, AI084815, AA931328, AI392998, AI287567, AI493596, AI278360, H16208, AW375190, H91009, AW375161, AW375154, AW375158, H90897, H16209, AW375149, AW418706, AW385279</p>
1745	HCRPE30	877073	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 378 of SEQ ID NO:1745, b is an integer of 15 to 392, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1745, and where b is greater than or equal to a + 14.</p>	<p>AB014604, AC003093</p>
1746	HKGAW02	877075	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 519 of SEQ ID NO:1746, b is an integer of 15 to 533, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1746, and where b is greater than or equal to a + 14.</p>	<p>AA935168, AA398801, AL119484, AL134524, AL119418</p>

1747	HCQCD93	877079	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 237 of SEQ ID NO:1747, b is an integer of 15 to 251, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1747, and where b is greater than or equal to a + 14.	AI434772
1748	HOCTD62	877080	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 341 of SEQ ID NO:1748, b is an integer of 15 to 355, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1748, and where b is greater than or equal to a + 14.	
1749	HE8PC46	877083	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 818 of SEQ ID NO:1749, b is an integer of 15 to 832, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1749, and where b is greater than or equal to a + 14.	R13359, H08041, AF010245, AW156983, H29189, Z46132, T16980, AI879608, AW402188, AA348764, R34542, R61072, H23510, AA436740, N36381, AI929579, AI879056, AI816318, AL137450

1750	HWLQMS ₃	877087	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 470 of SEQ ID NO:1750, b is an integer of 15 to 484, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1750, and where b is greater than or equal to a + 14.	AW369563, AI674814, AA767616, AA761971, AA465292, AA204693
1751	HTLGE26	877088	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 758 of SEQ ID NO:1751, b is an integer of 15 to 772, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1751, and where b is greater than or equal to a + 14.	AI285916, AI025315, AP000553, AC009516
1752	HCFDE85	877092	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 370 of SEQ ID NO:1752, b is an integer of 15 to 384, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1752, and where b is greater than or equal to a + 14.	

1753	HFEAH85	877093	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 208 of SEQ ID NO:1753, b is an integer of 15 to 222, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1753, and where b is greater than or equal to a + 14.</p>	AI950320, AA340023
1754	HE8QT45	877094	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 636 of SEQ ID NO:1754, b is an integer of 15 to 650, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1754, and where b is greater than or equal to a + 14.</p>	AI052389, AI761986, AW057796, AI656751, AW152082, AI126366, AI125599, AA452171, AI687797, AW023851, AA406351, AI431689, AA778840, AA993437, AI128983, AA565214, AI693581, AI254753, AI285759, AW020705, AI762885, N92604, AI193254, AI003334, C16412, C16192, AA226919, AA479128, AI536542, H08761, AA706764, R85597, T10616, AI933471, AI250282, AW160916, AI440238, AW151132, AI372041, AL040011, AA731417, AA806605, AA641818, AW194014, AA938181, AI932739, AW020164, AI345688, AI813538, AA829402, AI431507, AI890907, AW080157, AI963101, AI279925, AI560198, AW167340, AW151974, AI473536, AI963346, AI244329, N63128, AI350489, AI635634, AA609644, AI627339, AI499057, AI690813, AI581053, AI866469, AI955441, AW021373, AA282824, AI799313, AI609409, AA810226, AI918449, AI699029, AW189548, AW058304, AI828676, AI659041, AI918809, AA065052, AL134828, C21335, AI357644, AI348821, AI590043, AI866770, AI399759, AI636507, AA767924, AA814517, AI289791, AI421662, AW082532, AA761557, AA743474, AA836665, AI628850,

1755	HWLQL84	877095	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 546 of</p>	<p>AI919516, AW088546, AI590755, W48671, AL119863, AL039508, AI241923, AL079963, AI446373, AA934912, AI884574, AL048499, AI865189, AI581033, AW148544, AW079996, AA811736, AI673278, AW078818, AW409793, AI954504, AW002727, AI859991, AI688381, AW406745, AW021717, AW196720, AI915291, AW152182, AI950729, AI472487, AW023072, AI921915, AI582932, AI609191, AI872423, AI619820, AI434731, AI524179, AI800370, AI521560, AI889189, AW075382, N52016, AW089844, AI648494, AI678623, AI273886, AW104141, AW029457, AL022334, AR050959, S75997, AF100931, AF141289, AF183393, AI8777, AL133619, AF039138, AF039137, A08910, A08909, AF103804, AL110269, AB020777, X60769, A08908, X84990, AL137284, U73682, X66113, AR038854, AB031064, E05822, U37359, AL050366, AF000167, A76337, AC005091, AF098162, AF067790, AL137537, AL050155, AR053103, I48978, X55761, AF036941, Y13653, I89947, I33392, AC010077, AF026816, I80062, X83544, I22020, M85164, X99270, AF044323, X66366, AF102578, X01775, AI8788, X80340, AC006288, AL133565, AL137479, A60092, A60094, AF031572, AC004383, S78214, Z49216, X55446, AF068229, AC005992, U76377, I77092, D55641, X87582, AL080227, X99971, AL030998, A65340, AL122116, A77033, A77035, AL122104, AL137271, E03168, AF184965, AF195092, X93328, AL137716, AC005296, A86558, AF038847, AL137554, AF043493, AL110158, AF042090, W79030, AC005486</p>
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			SEQ ID NO:1755, b is an integer of 15 to 560, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1755, and where b is greater than or equal to a + 14.	
1756	HCQCP82	877096	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 275 of SEQ ID NO:1756, b is an integer of 15 to 289, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1756, and where b is greater than or equal to a + 14.	AA193032
1757	HCRMW8 0	877097	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 476 of SEQ ID NO:1757, b is an integer of 15 to 490, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1757, and where b is greater than or equal to a + 14.	AI902587, AL110283
1758	HSIGL73	877098	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 841 of	AW083100, AI206576, H43346, AA095182, H43308, AA248302, AI537677, AI345416, AI345612, AI345415, AL134830, AI802542, AW051258, AL079963, AI677796, AI569583, AI801793, AI619502, AW198090, AI433157, AI702073, AI633125, AI334445, AW163464, AI254727,

	<p>SEQ ID NO:1758, b is an integer of 15 to 855, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1758, and where b is greater than or equal to a + 14.</p> <p>AA253339, AW071417, AI499285, AI269862, AI863241, AI886753, AI564719, AI521012, AW026882, AL119863, AL036736, AW148716, AW161579, AI340603, AW090071, AI554245, AW160916, AL046200, AI358701, AI611738, AI284131, AI445025, AI536638, AW073865, AI636588, AA640779, AI687362, AI954183, AW300782, AI571909, AI887659, AW300889, AI500077, AW117746, AI921248, AL040243, AI632408, AI627360, AI873644, AI933589, AI682743, AI783504, AI620284, AL039086, AL120307, AI637584, AI919534, AI612885, AI815232, AW163823, AW129659, AI697324, AI284517, AI670009, AL038069, AW169653, AW104724, AI612913, AI801325, AI500523, AI446373, AL037454, AI926790, AI521560, AI500662, AW090013, AW023590, AW104827, AI890833, AI348897, AI491852, AI475371, AI627988, AI520862, AW190194, AL036403, AI567128, AW148363, AI283760, AA427700, AI284484, AL036274, AI699865, AL036631, AI798456, AI524671, AI207510, AW301409, AI812107, AI886124, AL036980, AW150578, AI679504, AI440239, AW080402, AL045500, AW118518, AW075667, AL043293, AI815855, AW148408, AL036396, AI702068, AW020561, AL038605, AI866770, AI559296, AA572758, AL040241, AW193530, AW073270, AI587114, AI610690, AI312428, AI469532, AI815237, AI866801, AI536685, AI468872, AW268220, AI805603, AI340519, AW166970, AL120853, AI349645, AI932794, AI500706, AI439745, AW089572, AI648509, AI590120, AW087207, AL110306, AI433976, AI862144, AI249323, AI280747, AI934259, AI696398, AW087445, AI929108, AA470491, AW081298, AW020693,</p>
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1759	HHEYT40	877099	<p>AA313905, AW392670, AL119319, AL119496, U46350, AW372827, U46349, AL119399, AL119363, AL134518, AL119443, AW363220, AW384394, U46346, U46341, AL119497, U46347, AL134524, AL119335, AL134528, U46351, AL042850, AL119457, AL119522, AL134920, AL119484, AL119391, AL119324, AL119444, Z99396, AL119355, AL119483, U46345, AL134538, AL119439, AL043037, AL042970, AL037205, AB026436, A81671, AR054110, AR060234, AR066494</p>
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 679 of SEQ ID NO:1759, b is an integer of 15 to 693, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>

1760	HDQHQS1	877101	<p>NO:1759, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2712 of SEQ ID NO:1760, b is an integer of 15 to 2726, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1760, and where b is greater than or equal to a + 14.</p>	<p>AW405179, AA278430, AI951459, AW130135, AA437355, AA427621, AW183077, AW044380, AI038334, AI540554, AI224500, AA256905, AW440059, AA702920, AI269240, AA662464, AA129087, AI042498, AW401902, AI865421, AA129086, AI023674, AA670374, U51141, AI355031, AA255481, AA600233, AA983314, AA661749, AA278961, AI286001, AW237708, AA512902, R16374, AI000189, AA872607, Z39825, AW338997</p>
1761	HODGR31	877104	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1019 of SEQ ID NO:1761, b is an integer of 15 to 1033, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1761, and where b is greater than or equal to a + 14.</p>	<p>AI701474, AI141563, AA805242, AW151887, AW172894, AI342500, N26482, AI903393, AW275998, AL120029, AI367540, AA905238, AA767195, AA633403, N25228, AA811725, Z39323, N29704, H17935, W05575, N70530, AA766858, AL118631, N98948, AI701701, N66665, AA737077, AB007917</p>
1762	HWLWB9 2	877105	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 607 of SEQ ID NO:1762, b is an integer of 15 to 621, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	<p>AA167624, AA688144, AA016314, AI499580, AI925014, AA808419, AI081193, AA194836, AA125835, AW419229, AA252083, AA461554, AI500464, AA557634, AI208183, AA988570, AA687098, W33019, AA876407, AW007949, F34751, AA492322, AA908820, R37941, T23517, AA844143, N73484, AA488062</p>

1763	HWLRD79	877106	<p>NO:1762, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 722 of SEQ ID NO:1763, b is an integer of 15 to 736, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1763, and where b is greater than or equal to a + 14.</p>	<p>AA465383, H51960, AA393998, AI300310, AI017609, AI017517, AI819082, AW088106, AW264111, AI446796, AA767844, AI538119, AI583021, AW151792, AW168958, AI252808, T79312, AA429868, AA971656, AI358328, AI039023, AW002810, AW028426, AI336255, AW238738, N64679, AA604414, N64391, AI275601, AA437374, AW003543, H93076, AI962621, AI148567, AA904883, AW194543, F01936, AI674414, AI419876, AI339747, AW299722, C00822, AA661775, T27646, AI473622, AI473612, AL042432, AA775934, AA700143, X63546, I76205, AJ012755</p>
1764	HWLOW7 2	877110	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1357 of SEQ ID NO:1764, b is an integer of 15 to 1371, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1764, and where b is greater than or equal to a + 14.</p>	<p>AA046439, AW243397, AA211360, AA974447, AI128724, AI990335, AA456529, AI655816, H39555, AI479968, AI283132, AI926934, AA534329, AA019380, AI961572, AA011475, AI089295, AI446563, AI807997, AA872374, AI798452, AA256606, AA936249, AI393572, H25408, AW016511, C01415, H28374, AA516090, R43067, AI991488, AA455164, AI217649, AA730296, AI216786, AI357214, AI961183, AI537981, AI203429, AI261590, AI093989, AI950123, R46342, AI803504, AI017015, AA425610, AA535732, AI922416, N21542, AI805514, R35671, R35782, Z38679, AA258077, AI092478, AW170513, AI382468, AA971129, AA455366, AA430349, AA090871</p>
1765	HUSGT72	877111	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 752 of SEQ ID NO:1765, b is an integer of 15 to 766, where both a and b</p>	<p>AA021634, AW028333, AI203234</p>

1766	HPWBM91	877112	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:1765, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 722 of SEQ ID NO:1766, b is an integer of 15 to 736, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1766, and where b is greater than or equal to a + 14.</p>	AA496246, AI760599, AI371734, AA476481, AA496245, AI955212, AI802040, AA628734, AA476480, AI369165, AI094501, AA744975, AI609830, AI810354, AI420545, AI381025, AI380020, AI675503, AI439413, AI474428, AI784364, AI832169, AA886089, AI362418, AA505488, AA554685, AA812608, AI125614, AA886622, AW389951, AI885739, AA215595, AW389969, AI000868, AF165185, AF172328
1767	HWLVB03	877114	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 507 of SEQ ID NO:1767, b is an integer of 15 to 521, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1767, and where b is greater than or equal to a + 14.</p>	AA112413, AI879634, AI625669, AA287717, AI027610, AI951403, N51076, AI218397, N72114, AI924949, AI278323, AI076224, AI921374, AI910849, AI263735, N25730, AI932387, AW269315, AI221583, AA806202, AI634635, AI357102, AI761994, AI272043, AI298937, AI685902, AI765676, AW298266, AA768195, AI742632, AI825896, AI682622, AA771945, AI367152, AA884764, AW418760, AA897114, AA704188, AA765915, W68725, AI434324, AI075318, AI695150, AA287716, AI424445, N50945, AA127273, H52538, AL037272, AA665059, AW340854, AA279150, H10181, R43600, AA554232, R49161, AI142249, AI003234, R43464, AW365070, AW079259, Z38935, F03815, AW364640, R40549, AI567606, AA788798, AW168090, AA127272, AL119457, AL119324, AL042544, AW383064, AA724943, AL119464, AL119443, AW392670, AL119439, AL119335, AL119355, AL042450, AL042542, U46349, AL134542, AI433107, AL042984, AL043029, U46350, AL043033, AL119497,

1768	HAIAM74	877119	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 439 of SEQ ID NO:1768, b is an integer of 15 to 453, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1768, and where b is greater than or equal to a + 14.</p>	<p>AL119319, AL042433, AL042965, AL042975, AL119483, U46341, AW372827, AL042614, AL119484, AL119363, AL119391, AL119444, AW363220, U46347, AW384394, U46351, 299396, AL134528, AL043011, AL043019, AL043003, U46346, AR060234, AR066494, AR1671, AR054110, AB026436</p> <p>AA026806, AI243595</p>
1769	HHMME78	877120	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 622 of SEQ ID NO:1769, b is an integer of 15 to 636, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1769, and where b is greater than or equal to a + 14.</p>	<p>AA215535, AA453055, 299396, AL119522, AW392670, AW384394, AW372827, AW363220, AL119497, AL119335, AL119443, AL119319, U46349, AL119483, U46350, AL119457, AL119324, U46341, AL119484, AL119363, AL119391, AL036418, AL038837, AL119341, AL119355, U46351, AL119496, AL119396, AL037051, AL036725, AA631969, AL036858, U46346, AL119418, AL134524, AL042614, AL119444, U46347, AL134528, AL042975, AL038509, AL039074, AL119439, AL037205, U46345, AL134518, AL036924, AL042965, AL119399, AL134533, AL042970, AI142137, AL042984, AL119488, AL042551, AL134538, AL037094, AL037082, AL037526, AL042450, AL036196, AL037077, AL037639, AL037085, AL039564, AL042544, AL043019, AL042995, AL043029, AL134542, AL042542, AL042896, AL036767, AL036190, AL043003, AL036268, AL038851, AL038520, AL038447,</p>

1770	HCYBJ73	877121	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 629 of SEQ ID NO:1770, b is an integer of 15 to 643, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1770, and where b is greater than or equal to a + 14.</p>	AL119464, AL036774, AL036733, AL036998, AL037178, AL036238, AL037615, AL037027, AL036719, AL036765, AL036191, AL036679, AL036158, AR060234, A81671, AR066494, AR023813, AR064707, AR069079, AR054110, AB026436 R18987, R17194, AA305460, Z45206, F08022, W86585, F07327, D50979, D80164, D80227, D80522, D80269, C14389, D59502, D81026, D80133, D80195, D51060, D80248, D59610, D59467, D59275, D58283, AA305578, D80188, C15076, D80366, D59859, D51022, D80022, D80038, C14331, D80166, D80043, D50995, D51423, D59619, D80210, D51799, D80391, D80240, D80253, D59787, D81030, D80241, D80212, D80193, D80196, AW377671, D80219, AA305409, D80045, AA514188, D59927, D80251, D57483, D80378, D59889, D80024, C14014, C06015, AW360811, D80268, AW177440, D80302, AA514186, AW378532, D80439, D59373, C14429, AW178893, D80247, D51103, AW375405, T11417, T03269, AW360834, AW179328, AW366296, C75259, AW360844, AW378528, AW360817, AW375406, AW178906, AW378534, AW179332, AW377672, AW179023, AW178905, D59653, AW177501, AW177511, D80157, C05695, D51759, AW352171, AW377676, D80132, AW178762, AW352170, AW177731, AW178907, AW179019, AW179024, D58253, F13647, D80134, D51250, AW367967, AW176467, AW360841, AW177505, AW178775, AW378525, AW369651, AW179020, AW178909, AW177456, AW179329, AW178980, AW352158, AW178914, AW177733, AW178908, AW178754, AW179018, T48593, AW352117, AW378543, AA514184, D80014, D45260, D51079, H67854, AW179004, D59551, D81111, AA809122, AW178774, AW179012, C14227, D59503, AW352120, AW378540, AW352163, D80258, D80064, D59627, C03092, H67866, AW179009, AI525923, AW178911, AI910186,
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1771	HCRNE77	877122	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 720 of SEQ ID NO:1771, b is an integer of 15 to 734, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	

1772	HWMBBC9 4	877123	<p>NO:1771, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 382 of SEQ ID NO:1772, b is an integer of 15 to 396, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1772, and where b is greater than or equal to a + 14.</p>	AA366950	
1773	HWLMS73	877126	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 772 of SEQ ID NO:1773, b is an integer of 15 to 786, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1773, and where b is greater than or equal to a + 14.</p>	<p>AA527435, AW195324, AI653000, AW051613, AA514619, AI652532, AI675204, AA435717, AI659333, AI796596, AI273289, AI880669, AI826786, AA889355, AW004627, AA397980, AC002302</p>	
1774	HFAMB70	877129	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 662 of SEQ ID NO:1774, b is an integer of 15 to 676, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	H10992, AL080276	

1775	HCQAK62	877130	<p>NO:1774, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 409 of SEQ ID NO:1775, b is an integer of 15 to 423, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1775, and where b is greater than or equal to a + 14.</p>	W86771	
1776	HCQDP71	877131	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 657 of SEQ ID NO:1776, b is an integer of 15 to 671, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1776, and where b is greater than or equal to a + 14.</p>	AA595817, H30539, AW022133	
1777	HE9PB28	877132	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1765 of SEQ ID NO:1777, b is an integer of 15 to 1779, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	<p>AW183176, AI338542, AA687408, AI335604, AA902163, AI741694, AA954272, AA742379, AI092736, AI826540, AI675475, AI079357, AI932722, AW196794, AW028184, AA091428, AW297724, AI678998</p>	

1778	HCQCR68	877133	<p>NO:1777, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 545 of SEQ ID NO:1778, b is an integer of 15 to 559, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1778, and where b is greater than or equal to a + 14.</p>	<p>T87566, AW389691, AA505395, R15971, AL022069</p>
1779	HEPNB10	877134	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 772 of SEQ ID NO:1779, b is an integer of 15 to 786, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1779, and where b is greater than or equal to a + 14.</p>	<p>AI268381, AI240658, AI302971, W87782, H02333, AW022594, X82877, A36408, X64315, X82876</p>
1780	HWLN36	877135	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 674 of SEQ ID NO:1780, b is an integer of 15 to 688, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	<p>Z78283, R11554, N44978, AA321699, AA661583, AW275432, AL048969, AI801563, AA640305, AA666295, AA676592, AA483966, AI268826, AW151247, AW021674, AI174703, AA601376, AL048060, AL048090, AI572680, AI570067, AI370470, H93717, AA846944, C06151, AA469230, M77888, AI224583, AI242994, F29968, AA829565, AI039257, AA180056, AI090377, AI791659, AW23132, AA831426, AA525753, AA630476, AA113757, AA493245, AW275640, AI292275,</p>

NO:1780, and where b is greater than or equal to a + 14.	AA525881, AI457152, T52772, AA233462, AI738741, F17549, AI309943, AI300597, AW245331, T57562, AI283329, AA302943, AA720582, AA480486, AW087537, AA599069, AI754421, AI474127, AA601333, AI192465, AA341992, AA367920, AI583532, AA493789, AW022376, AI053673, AA489390, AI417496, T07251, AI797998, AA491743, AA586474, AI590404, D29424, AI538404, AI378950, N54538, AI311796, AA084320, AI567676, AI310670, AI014332, AA218684, T03928, AL119645, AI282724, AI653465, N22416, AW264548, AI719298, AI065031, F18885, AA182577, AW149241, N58378, H90845, AA583386, R43468, AA483735, AI349130, R42954, AA666172, AI590442, AI079669, AI654737, AA584765, AA228437, AA602105, AI862213, AA111897, AI872018, AA847504, AA434165, AA342238, AA587835, AI271693, AA368616, AW272389, AA347203, AW192199, AA298365, AI758981, AL079553, AL078621, AC002055, AL096791, AC002316, AL021392, AC005954, AC004929, AC000115, AP000518, AC005746, AL021393, AC005011, Z73359, U95742, AC006368, AC007216, Z97632, AL035682, AP000070, AL031120, AC004587, AL034349, AC007563, Z81450, AC004652, AC005969, AC005778, AL023575, AP000075, M91453, U80459, Z68617, Z82245, AB014077, Z84721, AC004209, AC004506, AP000514, AL031663, AC002554, AC005736, AC002470, AC004834, AL035443, AC007564, AC005041, AP000010, Z68273, Z97056, AC007308, AF118808, AC004230, AF006501, AC004611, AL008716, AL118497, Z84467, Z85986, AC005082, AC002310, AC005914, AC005095, AC005666, AL078602, AF109907, AC004583, AC003982, AC004638, Z82244, AL031447, AC005519, AL034548, AJ003147, AC003685, AC005740, AL049569, AC006205, AC004673, AC005747,
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	AC004518, AC007110, AL031321, AC004678, AL117339, AF217403, AC005190, AP000277, AC002133, AC006167, AP000281, AC005251, AC003077, AP000008, AP000105, AP000037, AC002115, Z95113, AP000704, AC002529, AC002465, AC009069, AC007406, AP000511, AC006121, AL080276, AL049712, AP001053, AL023799, AL031985, AC004961, AC005207, AC010077, AC004139, AC020663, AC007066, AC003109, Y15083, AC002299, AC005104, AC006076, AB020859, AC007878, AC005320, AC004562, AL132799, AL023578, AC005065, AC006251, AC006275, AL022334, AC004623, AL031223, Z99289, AC006316, U91322, AF207550, AC004477, AC007371, AC006131, AC012599, Z99297, Z97832, AL049839, AL133163, Z73429, AC005184, AC002044, AC004150, Z93930, AL049776, Z46936, AC005579, AL121767, AC004134, AC005015, AP000227, AB004907, U89335, AC005218, AC004131, AC006130, AL022322, M94081, AP000087, AF042089, Z97054, AC004231, Z97989, AE000661, AC004858, AC005924, AC006162, AC004074, AL031587, AC005911, AJ006997, AC005393, AF165926, AC004757, AL022725, AC003665, AC009247, AL034343, AC004832, AC002996, AC004922, Z99716, AC000353, AC005776, AL139054, AL023876, AC004513, AC004773, AL136295, AL008710, AC002077, AC012627, AL034553, AC006132, AC009516, Z94802, AC005277, AF064863, AC002064, AC006238, AL021307, AC004921, AL035587, AC005523, AC005261, AC004030, AL031678, AC004998, AC005209, AL135744, AC007225, AL050341, AL034429, AL137100, AC006600, Z95114, AL022723, X77331, AC007064, AP000359, AL021918, AC004856, AB023050, AC004602, AC003043, AB009422, U80017, AC006211, AP001058, AC005175, AC013256, AC002997,

1781	HWLRC68	877137	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 534 of SEQ ID NO:1781, b is an integer of 15 to 548, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1781, and where b is greater than or equal to a + 14.</p>	<p>AC005594, AC008975, Z68756, L48038, Z75890, AC004076, AF107045, AL096703, AC004508, Z94801 U55042, AJ249706, AF184153</p>
1782	HWLQM8 8	877138	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 553 of SEQ ID NO:1782, b is an integer of 15 to 567, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1782, and where b is greater than or equal to a + 14.</p>	<p>W73224, AI804267, AI379725, AI636783, AI351006, H98536, AI365217, N35469, AI219083, AI221578, AA476333, AI687408, AC007285</p>
1783	HWLMG4 0	877139	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 523 of SEQ ID NO:1783, b is an integer of 15 to 537, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	<p>AI741535, AI968175, AI970276, AI991566, AW025923, AI652906, AW188858, AI637887, AA516176, AI917709, AI631638, AI625029, AI342081</p>

1784	HWLQO15	877140	NO:1783, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 600 of SEQ ID NO:1784, b is an integer of 15 to 614, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1784, and where b is greater than or equal to a + 14.	AI972873, N95228, AI656562, AW055145, AI936408, AI375092, AW016802, AI188610, AI985579, AI991588, AI292190, AI094172, AI078514, AI191047, R38989, AI763004, AW182193, AI830734, R49050, AA046092, AI202609, H49273, R99234, AL037112, AI262420, H19327, W87481, AW236116, N94137, AI221613, AA581541, AI521710, AA404487, AA046135, R05523, W69271, Z38912, AI468774, AA099158, AI984653, AA019723, AI554117, AI090954, AW007126, N70968, H12506, AF131754, AL035700, AC007270
1785	H2CAC59	877142	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 481 of SEQ ID NO:1785, b is an integer of 15 to 495, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1785, and where b is greater than or equal to a + 14.	AA307078, AA706423, AA994100, AA641669, AA626714, AA770345, AI360154, AA454000, AI015598, AI470060, AI470113, AI274091, AI627230, AI784122, AI563937, AW071839, AI937059, AI348119, AI285070, AI401714, AA550934, AW078863, AI092221, AI077448, AI139979, AA229891, AI192689, AA745669, AA614661, N51519, AA661859, AA483292, AA873127, AI002451, AI568443, AA074240, AA627279, AA451794, R96077, AA767360, AA451795, R96116, AA579733, AA328053, R44546, AI832484, AA393453, AA229890, D51799, D80166, D59889, D51423, D59619, D80210, D80240, D80253, D59859, D58283, D59927, D80212, D80188, D80227, D81030, D80195, D80219, D57483, D80391, D59610, D80043, D59502, D80038, D80022, D80196, D80269, D80164, D59275, D80366, AA400769, D80193, D80241, D59787, D80024, D80045, D50995, D50979, C14389, C14429, D80378, T03269, C75259, C14331, AA888120, C15076, C14014, D59467, D51060, AA305409, D80134, AW178893, D81026, D80268, D51250, F13647, D80949, Z21582, D58253, D80522, D81111,

	AW178775, D51079, AW177440, D59695, D80168, D51022, C14227, AW179328, AW377671, AW352158, AW378532, AA514188, AA305578, AW369651, D52291, D80251, D80248, AW177501, AW177511, AI905856, AA704205, C14298, AW178762, D80064, AW352117, AA514186, D80133, AA285331, AW360811, C14407, AW378540, D51097, AW375405, AW360844, D80132, AW360834, AW366296, AW360817, AW179220, AW375406, AW378534, AW352171, AW179332, AW377672, AW179023, AW377676, AW178905, AW178754, AW179024, D80439, T03116, AW177505, AW360841, AW179020, D80302, AW178909, AW177456, AI557751, AW178906, AW352170, AW177731, AW178907, AW179019, AW179018, AW178971, D80247, AW352174, D80014, AW179017, AW179004, AW179329, AW179012, AW178980, AW177733, AW378528, AW178908, T11417, D51103, D80157, AW179009, AW178914, AW378543, AW378525, AW367967, T02974, D51759, D58246, D58101, AW378539, AW178983, AW352120, AW177728, AW178774, AW178781, AW178911, AW352163, D59627, D80258, D59503, C06015, AI557774, T48593, D51213, D45260, D50981, AW378533, H67854, AW367950, Z82214, D63487, A62298, A84916, A62300, AJ132110, Y17188, AR018138, X67155, A67220, D89785, A78862, D26022, A25909, D34614, D88547, AR025207, X82626, AF058696, AR008278, AB028859, AB012117, Y12724, X68127, A85396, AR066482, A44171, A85477, I19525, A86792, U87250, A82595, X93549, A94995, AR060385, AB002449, AR008443, I50133, I50128, I50126, I50132, AR066488, AR016514, AR060138, AF135125, A45456, A26615, AR052274, AR066490, Y09669, A43192, A43190, AR038669, AR066487, I18367, A30438, D88507, I14842, AR054175, D50010, Y17187, AB033111, AR008277, AR008281, A63261, AR064240, AR008408,

1786	HWLX187	877143	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 570 of SEQ ID NO:1786, b is an integer of 15 to 584, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1786, and where b is greater than or equal to a + 14.</p>	<p>AR062872, A70867, AR016691, AR016690, U46128, D13509, A64136, A68321, AR060133, I79511, Z32749, U87247, AB023656, AF123263, X93535, AR008382</p> <p>AW450418, R24589</p>
1787	HSDSJ26	877145	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1319 of SEQ ID NO:1787, b is an integer of 15 to 1333, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1787, and where b is greater than or equal to a + 14.</p>	<p>AA193531, AI360026, N40228, AA459477, N93266, H85243, AI918187, AI564399</p>
1788	HCFBR55	877146	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 536 of SEQ ID NO:1788, b is an integer of 15 to 550, where both a and b</p>	<p>AI336245, AI761380, AI423423, AI367536, N81076, AA865581, AA258570, AA772622, H22025, AI565200, AI371499, AA659137, AA879034, AI4233953, AI084944, U69127</p>

			correspond to the positions of nucleotide residues shown in SEQ ID NO:1788, and where b is greater than or equal to a + 14.	
1789	HCRNP62	877147	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 471 of SEQ ID NO:1789, b is an integer of 15 to 485, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1789, and where b is greater than or equal to a + 14.	AA845225, W21880
1790	HCRMR04	877148	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 551 of SEQ ID NO:1790, b is an integer of 15 to 565, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1790, and where b is greater than or equal to a + 14.	
1791	HGBHE60	877149	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 900 of SEQ ID NO:1791, b is an integer of 15 to 914, where both a and b	AI076490, AI654914, AI265931, AA218987, AA232080, AI921179, AI921200, AF110400

1792	HKAOG63	877153	correspond to the positions of nucleotide residues shown in SEQ ID NO:1791, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 296 of SEQ ID NO:1792, b is an integer of 15 to 310, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1792, and where b is greater than or equal to a + 14.	AA307405, AL037524, AL037501, AA126654, R97186, Z58080
1793	H2CBR38	877154	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1040 of SEQ ID NO:1793, b is an integer of 15 to 1054, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1793, and where b is greater than or equal to a + 14.	AA434547, AA278232, AA029146, AA191433, H00358, R11943, H11169, Z46056, AA193396, AA405639, T99622, AA165044, W00839, R35827, AA425497, F11670, W02964, T85686, R14127, AA449385, W24857, AA313412, N77971, AW303346, AA455582, AI312533, T56653, AA905068, AA304411, AW009793, AA514453, AA587237, N77395, AA129547, AW069049, AI816925, AC002543
1794	HRDEW54	877155	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 783 of SEQ ID NO:1794, b is an integer of 15 to 797, where both a and b	AW303346, AA905068, AW009793, AA193396, AA514453, AA587237, AW069049, AI816925, AA425497, AA525849, AA455582, AI309995, AI768678, AI129597, AA129547, AI922487, W00839, AI679847, AI275507, AW070298, AI816908, AA278690, AA165044, AW168777, AA456079, AI250904, AA405639, AI679273, AI399923, AA600034, AA427915, AA613020, AA723373,

1795	HBMD60	877157	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:1794, and where b is greater than or equal to a + 14.</p>	<p>AI630755, AA926672, N95773, AI355684, AA576604, AI081443, N73000, AI633576, AW008775, AA989509, AW009019, AI309215, AI125948, AI431758, N58382, AA136562, AA425221, H11081, AA644362, AI080504, AA449256, AA029146, AA278232, F09333, AA190919, H00311, T91257, W02964, N33940, T99623, R49537, T57253, H83423, AA969769, AA826121, AW182061, AA975401, AW235959, AI767913, Z40018, AA640099, AA932232, T49289, T56653, AA029024, T49288, AI695342, W24857, AA159950, H00358, T49319, AW134475, AA434547, T49320, AC002543, AI143419</p> <p>AL031774</p>
1796	HOGDM40	877163	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 350 of SEQ ID NO:1795, b is an integer of 15 to 364, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1795, and where b is greater than or equal to a + 14.</p>	<p>AI459297, AA807285, AA428379, AA443512, AA808649, R73812, AA829249, R73811, AA306972, AI823917, AW296857, R34933, AI964018, R34837, AL120670, AL120664</p>
1797	HWLNG61	877165	<p>Preferably excluded from the</p>	

			present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 449 of SEQ ID NO:1797, b is an integer of 15 to 463, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1797, and where b is greater than or equal to a + 14.	
1798	HCQCT53	877166	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 877 of SEQ ID NO:1798, b is an integer of 15 to 891, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1798, and where b is greater than or equal to a + 14.	N23022, AI742147, AA399952, AA773713, AI917300, AA773709, AA768407, N47504, AI339083, AI743525, AI276208, AI393759, AA933833, H97027, H97002, AI401278, AI952505, AW294197, AA844082, AI990110, AI770034, AI973154, AI381716, AA620473, AI990671, AA256663, N47503
1799	HCRNV59	877167	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 420 of SEQ ID NO:1799, b is an integer of 15 to 434, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1799, and where b is greater than or equal to a + 14.	AA515852, AA806034, AA642399, AI804718, AA805516, AI494462, AI478789, AW236212, AA252353, AI768661, AA721744, AA761615, AA603497, AI134524, AI134110, AA252268, AL047163, AL042898, AL135012, AL042468, AL042523, AL042420, AL045327, AL045494, AL042741, AL045891, U46344, AL049280, AR066494, AL133053, AI122101
1800	HCQDP52	877168	Preferably excluded from the	N94138, AL042183

			present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 435 of SEQ ID NO:1800, b is an integer of 15 to 449, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1800, and where b is greater than or equal to a + 14.	
1801	HFAAH06	877169	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 681 of SEQ ID NO:1801, b is an integer of 15 to 695, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1801, and where b is greater than or equal to a + 14.	W32491, AI557416, AA641955, AC007250
1802	HWLMX0 2	877170	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 896 of SEQ ID NO:1802, b is an integer of 15 to 910, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1802, and where b is greater than or equal to a + 14.	AI432361, AI394416, AI075852, AA479958, AA491075, AA588390, N20112, AW377547, AI888417, AA446881, AF155106, AB033107
1803	HCYBH52	877171	Preferably excluded from the	AA305314, AI656138

			present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 526 of SEQ ID NO:1803, b is an integer of 15 to 540, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1803, and where b is greater than or equal to a + 14.	
1804	HCRNX51	877173	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 217 of SEQ ID NO:1804, b is an integer of 15 to 231, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1804, and where b is greater than or equal to a + 14.	AA232079, AF110400, AB018122
1805	HHEPP92	877174	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 374 of SEQ ID NO:1805, b is an integer of 15 to 388, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1805, and where b is greater than or equal to a + 14.	AI973079, AA813801, AA191593
1806	HCQAB45	877175	Preferably excluded from the	

			present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 270 of SEQ ID NO:1806, b is an integer of 15 to 284, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1806, and where b is greater than or equal to a + 14.	
1807	HCYBG53	877176	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 320 of SEQ ID NO:1807, b is an integer of 15 to 334, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1807, and where b is greater than or equal to a + 14.	AA305151, H10843
1808	HCQDF43	877181	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 907 of SEQ ID NO:1808, b is an integer of 15 to 921, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1808, and where b is greater than or equal to a + 14.	AL122007
1809	HSHBU44	877184	Preferably excluded from the	AI683284, AW207832, AB007917, AB024568, E17301,

1810	HLHSE50	877185	present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 842 of SEQ ID NO:1809, b is an integer of 15 to 856, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1809, and where b is greater than or equal to a + 14.	E17300
1811	HOSDV69	877187	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 648 of SEQ ID NO:1810, b is an integer of 15 to 662, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1810, and where b is greater than or equal to a + 14.	AA600172, AC005007
1812	HCRMH42	877189	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 677 of SEQ ID NO:1811, b is an integer of 15 to 691, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1811, and where b is greater than or equal to a + 14.	AI769803, AI769743, AI986284, AI031834, AI017244, AI247689, AI336761, AW445026, AA933877, AA947886, AI347451, AI344592, AI580382, AW302464, AA702771, AA923510, AI302541, W88655, N74646, AI343716, AA854730, H66770, H62545, W88899, U66036, AB008164, AF026303, AJ238392
				AL119483, AL119484, AL119418, AA554958,

1813	HSKZE25	877191	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 601 of SEQ ID NO:1812, b is an integer of 15 to 615, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1812, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1191 of SEQ ID NO:1813, b is an integer of 15 to 1205, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1813, and where b is greater than or equal to a + 14.</p>	<p>AC006576, Z84466, AC008012, AC006480, AC005701, AC004651, AP001053, AF019413, M20903, AC004968, AC004966</p> <p>AI740516, AI739132, AA631257, AI741376, AW068935, AI467852, AI123717, AI754551, AI752240, AW205510, AA464510, AW044211, AW028889, AW198033, AI538632, AA513096</p>
1814	HCRMP38	877194	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 586 of SEQ ID NO:1814, b is an integer of 15 to 600, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1814, and where b is greater than or equal to a + 14.</p>	<p>AI623320, AL023654</p>
1815	HDPXD55	877195	Preferably excluded from the	<p>AL110186, AB011097</p>

1816	HHMMB4 0	877200	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 551 of SEQ ID NO:1815, b is an integer of 15 to 565, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1815, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 272 of SEQ ID NO:1816, b is an integer of 15 to 286, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1816, and where b is greater than or equal to a + 14.</p>	
1817	HEQAN41	877202	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1306 of SEQ ID NO:1817, b is an integer of 15 to 1320, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1817, and where b is greater than or equal to a + 14.</p> <p>AW003740, W81689, AI862673, AW270849, AI912038, AI703038, AA937086, AI279103, AA282925, AI078559, AI768831, AA313607, AI275886, AI432429, AA903131, AI870642, AI189825, AA283134, W81688, AI521151, AW044071, AA410488, AA827169, AA730751, AA256352, AW131390, AI970675, AA989435, AA918065, AI813309, AI969627, AA255498, AA621557, AA828340, AI693110, AI351613, AI471645, AA025513, AI912910, AA410307, AW071626, AI655122, AI800296, AI651526, AI368793, AA976771, AI631084, AI829747, AI620149, AI970920, AA256209, AI422613, AI826838, AW389929,</p>	

	AI638091, AI089178, AA582684, AI917053, AI024439, R70884, AI859906, AI915081, AI884861, R70883, AI279417, AA678616, F08214, AI859744, AA831801, AA553457, AA832016, AI922614, AW341882, AI798242, AA484892, AA610255, N92697, AA609826, AI631059, AI797998, AI869786, F08655, AA598605, AI038324, AA857812, AI018726, AA807579, AA778962, AW265688, AW019964, AA904211, AI383596, H59611, AI150934, H59651, AI889426, AW078821, AW390284, AI347665, AI860535, AA644223, AA581498, AA020882, AI472736, F33820, AW440568, R99613, AA678932, AI288033, AW081610, T76991, AW270429, N67313, AW270351, AA362791, AI803741, AI889995, AI359200, AA126814, AI419337, AI361090, AA757426, AA364420, AI421950, AI114645, AA345594, AW192518, AI671077, AW026305, AA579281, H39839, AW303822, AA856815, AL039761, AA643829, AA402113, AI289050, AA653291, AA436140, AI358776, F17537, AI284092, H38901, AI123488, AA603558, AI246061, AA501867, AI291419, AA484022, AF003627, AF035397, AF086459, AF130357, AC007656, AF111169, AC005231, AC002316, AP000350, AP000045, AL049830, AC004820, AL133448, AC004990, Z49258, AC007055, AL121603, AL031984, AC006084, L78810, Z82208, X51956, AL031602, U47924, U85195, AC003029, AE000658, AC006251, AC005696, AC007878, AL049692, AC005480, AC005082, AC000379, AC007057, AL049872, AC005006, AL031433, AC005484, AL031295, AC007687, AC005089, AL096791, AC002312, AL050305, AC006443, AL031728, AL133371, AC002432, AL049839, AC007225, AC005330, AC004841, AC002365, Y10196, AC004408, AC005212, AL022240, AC005332, AC005514, AL033527, AL049643,

	AL049694, AC005048, AC005902, AC010205, AC004383, AL049553, AC004148, AF064866, AC003982, AF196779, AL049641, AC008041, L44140, AF095901, AL050404, AL031293, AF207550, AJ003147, AC005778, AC003101, AC005695, AL121652, AC006359, AL024498, AP000113, AC003107, AP000352, AC000026, AC004675, AL020997, Z83844, AL035425, AC000359, AC007666, AL008582, AL049569, AC006115, AP000130, AP000208, AC005209, AC003036, AC005632, AC006455, AP000247, AL023879, U91318, AF088219, U95739, AC005971, Z95115, AL034377, AC004804, AL049780, Z69715, AP000304, AL109827, AF067844, AL031311, AC000031, AF053356, AC006965, AC006312, AL022165, AC003002, AC007021, AC004081, AC007350, AC005102, AF124523, Z69890, D84394, AC005943, AC003973, AC004685, AC007014, AC004797, AL035405, AC005355, Z98051, AC008078, AC004796, AC004447, AC004815, AC006211, AC005015, AC007686, AC004638, Z73988, AC004230, Z84466, AC004883, AC007688, AC007707, AC012085, AL049538, AL050347, AC009330, AC004583, AL117330, AC008372, AC005726, AC007376, AC005225, AC003692, AL035697, AC000025, AC005156, AL031774, AL035455, AL133163, AC004079, AL022719, AC002115, AC004819, AC004000, AC004477, A51133, A76958, AC002350, AC007546, AC008040, AC002996, AC003043, AC005907, AC005519, AL121782, Z98742, AP000030, AC005365, AL008729, AF217403, AL132985, AC005562, AC004890, AC006948, AC002551, AC004185, AC005844, AL035403, AC004539, AP000115, AP000695, AC009247, AL031730, AC002429, AL109963, AL033523, AC000112, AC007263, AL133245, AL031053, AL021397, AC002072, AF134726, AL031659, AC012627,

1818	HSDZB30	877205	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 807 of SEQ ID NO:1818, b is an integer of 15 to 821, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1818, and where b is greater than or equal to a + 14.</p>	<p>AL122020, AL021154, AC005666, AL136295, AC002504, AL080317, AC006111, AC004526, AL049871, AL009179, AL022721, AL031587, AC011331, AC005874, AF134471, AF109907, AC005969, AC006160, AL133244, AC002550, AL022313, AI632057</p> <p>AA129439, AA425398, AI381416, R17127, AI418660, AA314750, F32787, AI590092, AW021547, AA151302, Z42142, AA904204, U77327, AF064105</p>
1819	HWLWH5 6	877206	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 356 of SEQ ID NO:1819, b is an integer of 15 to 370, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1819, and where b is greater than or equal to a + 14.</p>	<p>AI989601, AC005593</p>
1820	HWLOT46	877207	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 388 of</p>	

1821	HOVCR67	877208	SEQ ID NO:1820, b is an integer of 15 to 402, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1820, and where b is greater than or equal to a + 14.	
			Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 334 of SEQ ID NO:1821, b is an integer of 15 to 348, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1821, and where b is greater than or equal to a + 14.	
1822	HLHSV54	877211	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 498 of SEQ ID NO:1822, b is an integer of 15 to 512, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1822, and where b is greater than or equal to a + 14.	
1823	HSYBZ84	877212	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 926 of	AA922141, AA505358, AA515537, AI439152, AA603688, AI279253, AI003069, H09774, R61798, N46444, N48945, R45147, Z45425, R55783, R43907, R14995, AA348815, AB032971

1824	H2LAC34	877213	<p>SEQ ID NO:1823, b is an integer of 15 to 940, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1823, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 488 of SEQ ID NO:1824, b is an integer of 15 to 502, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1824, and where b is greater than or equal to a + 14.</p>	AA304651, AI372785, AA496464, R09787, D59627, C16955, D45273, D80168, D52291, D51213, T03048, D59695, C14298, D51079, D80949, D80258, Z33452, AW360780, D59503, C14407, D58246, D80014, C14227, D80064, AI535686, D81111, T11417, T02974, AW377669, D58101, D52059, H67854, D59317, D80038, H67866, AI525216, AI525228, AA809122, AA305578, D50979, D80195, D52317, C15076, D80193, D80251, D59551, C06015, D81026, D80269, D80022, D59467, D80164, D59275, D80045, D80227, D59502, AI557774, D80302, C14389, AW377661, F13647, D51423, D58283, D80166, AI557751, D80439, T03116, D81030, D80188, D57483, C03092, D80043, D80157, D51103, D59859, C14331, D80212, D80268, D80366, D59889, C14973, D80196, D59619, D80133, D80247, D51022, D80210, D51799, D80391, D80240, D80253, D80219, D59787, D50995, AA305409, C04682, D80024, C14344, Z21582, D59474, AI525969, D80248, D59610, C14014, D51221, Z30160, D80522, AA514188, T02868, D59927, D31458, D80378, AI525238, C13958, H67858, AI525242, D45260, AA514186, AI525923, AI525227, D80241, AA514184, AI525978, AI525912, AI535961, C05763, AI525235, AI525920, AI525917, AI525215, T11191, AI525237, AI525903, AI525922, AI525907, AI525925, AI525914, AR016808, X64588, AB010386, AR060385, AJ132110, AB028859, AB019242, A82595, A84916, AB002449, I14842, I79511, AR008278, U37689, I81198, A62300, A62298, AR054175, AR008277, AR008281,
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1825	HCQAE29	877214	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 627 of SEQ ID NO:1825, b is an integer of 15 to 641, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1825, and where b is greater than or equal to a + 14.</p>	AR018138, AF058696, A47134 AA505138, AA730263
1826	HCRMV19	877215	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 433 of SEQ ID NO:1826, b is an integer of 15 to 447, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1826, and where b is greater than or equal to a + 14.</p>	N72981
1827	HWLMF31	877218	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 576 of SEQ ID NO:1827, b is an integer of 15 to 590, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1827, and where b is greater</p>	AI806805, AA909734, AI205805, AI208930, AI023837, AI024558, AA808303, AI239842, AA904642, AI200741, AA861427, AI808962, AA971918, AA806642, AC004542

1828	HFIIZ28	877220	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 411 of SEQ ID NO:1828, b is an integer of 15 to 425, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1828, and where b is greater than or equal to $a + 14$.</p>	AA812688, AI418599, AI151240, AI808902, AI379148, AA878931, AI241082, AA938582, AI913473, AA194942, N30395, AA523704, AI379226, AI886468, AI472706, AI336385, AI287668, AA742997, AI754786, AW085594, AA876827, AI283450, AL044439, AA180129, AA525768, AA282183, AA628042, AA627935, AA916288, AI339391, AI289442, AL034430
1829	HCQDK28	877222	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 368 of SEQ ID NO:1829, b is an integer of 15 to 382, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1829, and where b is greater than or equal to $a + 14$.</p>	N75183, AI366031, F12542, T74151, AC012627
1830	HHEQI29	877229	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 818 of SEQ ID NO:1830, b is an integer of 15 to 832, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1830, and where b is greater</p>	AA446316, AA446497, AI198963, H38387, AI444827

1831	HTWFA44	877230	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 576 of SEQ ID NO:1831, b is an integer of 15 to 590, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1831, and where b is greater than or equal to $a + 14$.</p>	<p>AI948974, AW150262, AW005687, AI805463, AI760052, AW130854, AI092715, AI561048, AI417784, AA846295, AI027808, AI073757, AI034006, N33620, AI215790, AI393040, AI022090, H95228, AI401833, AA771890, N92602, AW103347, AA496978, H95430, AA747344, AW183814, F22014, N56754, AI942322, AI313099, AA040794, AI470290</p>
1832	HOCMF20	877231	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 3252 of SEQ ID NO:1832, b is an integer of 15 to 3266, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1832, and where b is greater than or equal to $a + 14$.</p>	<p>AI135440, W20119, AI810591, AI089310, AA044704, AA099241, AI806853, AA039903, AI420778, AI151415, AI093762, AI982907, AI871680, AI076492, AA099143, AI246659, AA041527, AA477336, AI188305, AI088688, W87880, W80803, AA479648, AW291739, AI023926, AI215789, AI768938, AA669926, AA523605, AA313436, AI452952, AI569996, AI354883, R61620, N72558, AW013938, W92312, AI168582, N33871, AI189869, W45147, AI151417, AI280515, W92299, AI379400, AA406620, AI636575, AA214649, W81054, AA748471, AA705551, AA723161, R70656, AI086670, C17933, AA830207, AW262560, W02383, AA906264, AA056377, AA040375, AI276236, AI141343, AA868115, AA862839, AI275375, H10905, AA129975, R80462, W45096, AA846612, AA847843, W87765, AA411692, AA369318, AI309745, AA359784, AA398795, AA044640, AA334622, AA367594, AI478815, AW054686, Z44983, AA367593, AI990089, R01145, AI954539, AI990659, AA379173, Z40721, AI886597, AI024032, R60952, AA670197, AA435840, AW389160, AA847919, R80663, AA056474, AA248230, N81095, AI206251, AI476295, AA211075, AI619485, N90439,</p>

1833	HWMBOS 0	877232	<p>preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 844 of SEQ ID NO:1833, b is an integer of 15 to 858, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1833, and where b is greater than or equal to a + 14.</p>	<p>R05760, AA079305, W07456, AA079306, AA847920, AW387693, AI925404, AI689470, AI953765, AI470293, AA806719, AA631120, AI889818, AI274527, AI249962, AI932739, AI888621, AI365256, AI679095, AW149876, AF003626, Y10043, AF022465, Z83826, Z93931, AC002526, Y10044, AC005479, AL024505, AL034450, AC002375, AL049709, AL035420, AF047701, L05085, AC004493, AF026008, Z20724, Z20735</p>
1834	HCQBD64	877233	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 283 of SEQ ID NO:1834, b is an integer of 15 to 297, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1834, and where b is greater than or equal to a + 14.</p>	<p>AI289115, AA653396, AI280875, AW439596, AA147044, AI683907, AI186619, AW191991, AI422310, AI653662, AA825197, AA854077, AA916637, AA810755, AI624228, AI763289, AA449797</p>
1835	HATAP30	877234	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>	<p>AW008122, AC005021, L48431</p>
			<p>AI828084, AW292950, AI955290, AI425012, D54798, AA101714, AA661732, AI082095, AI433898, N78571, AA563807, AI457762, AA460668, AA101715,</p>	

			<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1244 of SEQ ID NO:1835, b is an integer of 15 to 1258, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1835, and where b is greater than or equal to a + 14.</p>	<p>AI148116, AI276830, AI378227, AI148121, AI082653, AI972872, AA631712, AI272196, AA603075, AI018047, AI453834, AI223254, AI026628, AW298807, AI280067, AI378917, T19338, T33356, AA761507, AI272883, R51104, AA644592, T03688, AI274939, AI268664, AI690246, T33873, N52587, AA461016, T32236, AA464590, AA693417, AI470644, F09140, F10434, H06959, H22931, AA318879, T15930, AL120494, AA371748, N75010, R41316, R41317, AI834293, D81373, AA767242, AW386979, R42324, T33358, T33357, AI366186, T27271, W01584, AI700577, AI767391, AI760808, W26393, W07166, AA861382, AI816326, AI291384, AI913952, W05753, AA488932, AA411945, T09288, R11766, H24112, AW293062, AI277039, R18459, R18460, AI302024, F12831, AB002385, AC006372, U66702, U81561, U65065, U73458, A63346, A63355, AF007555, Y08569, A63357, U91574, U82439, U57345, Z50735</p>
1836	H2LBB51	877235	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 747 of SEQ ID NO:1836, b is an integer of 15 to 761, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1836, and where b is greater than or equal to a + 14.</p>	<p>AA316077, AW407693, R35424, AL121134, AA356852, F12867, AA776842, AW163365, M74089</p>
1837	H6EDT19	877237	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a</p>	<p>AA402106, AI734033, AA401995, AI821646, AW438634</p>

			is any integer between 1 to 911 of SEQ ID NO:1837, b is an integer of 15 to 925, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1837, and where b is greater than or equal to a + 14.	
1838	HWLOW8 7	877240	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 528 of SEQ ID NO:1838, b is an integer of 15 to 542, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1838, and where b is greater than or equal to a + 14.	W53026, AF180919
1839	HWLMB22	877242	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 428 of SEQ ID NO:1839, b is an integer of 15 to 442, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1839, and where b is greater than or equal to a + 14.	W92133, AL035400
1840	H2CBA14	877247	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a	AA307110, AI791261, N36579, D80195, D59467, D80164, C15076, D80227, D80269, D59275, D59502, D58283, D59859, D80022, C14331, D80166, D51799, D51423, D59619, D59610, D80210, D80391, D80240, D80253, D80043, D59787, D81030, D80038,

<p>is any integer between 1 to 501 of SEQ ID NO:1840, b is an integer of 15 to 515, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1840, and where b is greater than or equal to a + 14.</p>	<p>AA305409, D80378, D80212, D80366, D50979, D80193, D80196, D80188, D80219, D59927, D57483, D50995, D59889, D80241, C14389, D80024, D80045, T03269, C75259, AW178893, D51022, C14014, AW378532, AW178775, AI732942, AA305578, AW179328, D80134, AW177440, D81026, D51250, D80302, D80251, AA514188, AW352158, D80248, D80522, F13647, D80268, AW378540, D80168, AW178762, C14298, D58253, AW177501, AW177511, D80064, D80133, AW352117, C14227, C14407, Z21582, AW377671, D81111, AW360834, AA514186, AW360811, AW375405, D80132, D80439, AW366296, D80247, AW360817, AW375406, AW178905, AW378534, AW352171, AW179332, AW377676, AW377672, AW179023, AW178906, AW178754, AW179024, AW178907, AA285331, AW179020, AI557751, AW177456, C06015, D51097, AW352170, AW177731, D51103, AW179019, AW179018, T03116, D80157, AW378528, AW178908, AI557774, AW352174, AW178914, AW178781, AW378543, AW378525, AW352163, D80258, AI525923, D80014, T48593, D59627, AW178774, AW378539, D45260, AA809122, T11417, H67866, D45273, C03092, H67854, AW367950, AI525227, D51213, AW178986, D59317, D59503, T02974, D58246, C14973, AI525917, AW179013, T03048, C14344, AW378533, AI535686, D51221, D59474, AI525920, D59551, AA514184, D58101, Z30160, H67858, AI525925, AI525235, AI525242, T02868, Z33452, AI525239, C16955, AI525912, AI525237, AI525215, AW378542, C13958, D31458, A84916, AJ132110, A62300, A62298, AR018138, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, AF058696, D88547, AR008278, AB028859, X82626, AR025207, A82595, Y12724, A94995, AR060385, AB002449, AB012117, AR066482, X68127, AR008443, A85396,</p>
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1841	HCRNM80	877250	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1013 of SEQ ID NO:1841, b is an integer of 15 to 1027, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1841, and where b is greater than or equal to a + 14.</p>	<p>I50126, I50132, I50128, I50133, A44171, A85477, I19525, A86792, U87250, AR066488, AR016514, X93549, AR060138, A45456, A26615, AR052274, I14842, Y09669, A43192, A43190, AR038669, AR066487, AR054175, A30438, Y17187, I79511, I18367, A63261, D50010, AR008277, AR008281, AR062872, A70867, D88507, AR016691, AR016690, U46128, AR008408, AF135125, A64136, A68321, D13509, AR060133, U87247, AB033111, AR064240</p> <p>AI479603, AW190581, AA573923, AA883422, AA625554, AW172498, AI031618, AI910454, AI332605, AI738984, AA910770, N30717, AA146619, AI348584, AA309589, AA143550, AA146653, AW293078, AA625575, AA625979, AA676991, AW384713, AA494197, AA679394, AA085095, AI800002, AI739098, AI126129, N41331, AI682193, R00299, AA143647, H79815, AA626482, AW362188, AI372964, C05152, N75441, AA085143, W89067, AI290775, AI202571, T99951, AW008713, W95658, AW384743, R45400, AI201781, AW389792, AW389779, AW389790, W95657, AA721631, AA354111, AW389774, AW192109, R29667, AW389836, AA515518, C03882, H79909, AI267185</p> <p>N65940, H82959, H72780, R09098, H90731</p>
1842	HCQCC04	877251	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 430 of SEQ ID NO:1842, b is an integer of 15 to 444, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1842, and where b is greater than or equal to a + 14.</p>	
1843	HCQC117	877254	<p>Preferably excluded from the</p>	<p>AA129983, M73489, S57551, D17513, Z74734</p>

1844	HFIYJ63	877255	present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 536 of SEQ ID NO:1843, b is an integer of 15 to 550, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1843, and where b is greater than or equal to a + 14.			AL135394, W87908, AB002331
1845	HWLOW5 1	877256	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 312 of SEQ ID NO:1844, b is an integer of 15 to 326, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1844, and where b is greater than or equal to a + 14.			H23330, AI796906
1846	HHFBA07	877257	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 563 of SEQ ID NO:1845, b is an integer of 15 to 577, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1845, and where b is greater than or equal to a + 14.			AW130559, AA604942, AI125644, AI703464,

1847	HWLDO51	877258	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 718 of SEQ ID NO:1846, b is an integer of 15 to 732, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1846, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 302 of SEQ ID NO:1847, b is an integer of 15 to 316, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1847, and where b is greater than or equal to a + 14.</p>	<p>AW103052, AI391708, AI452537, AI460380, AI050784, AI949725, AI052071, AW237646, AI538701, AI435508, AA621302, AA233121, AI348838, AI339780, AI800246, T67212, AI144461, AW130699, AA527371, AW205441, AA346401, AI247525, AI352551, AI651506, AA707110, R46530, AI927033, AI560516, R46529, AI918364, N75541, R51933, R72231, H45846, T67213, AA627945, N40063, AA233205</p> <p>AI830540, AA357636, AA516122, AI391596, AI670727, AA814145, AA661893, AA554670, AI335153, AW157547, AI862260, D31492, AA992253, AA972187, AI271839, AI218276, AC005606, AC005363</p>
1848	HLSAE05	877261	<p>Present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 703 of SEQ ID NO:1848, b is an integer of 15 to 717, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1848, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 703 of SEQ ID NO:1848, b is an integer of 15 to 717, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1848, and where b is greater than or equal to a + 14.</p>	<p>AA307126, Z99396, AW392670, AW372827, AW384394, AW363220, AL119335, AL119497, AL119443, AL119522, AL119319, AL119363, AL119496, U46341, AL119457, AL119324, AL119483, AL119484, AL119391, AL119341, AL119355, U46350, U46349, AL119396, U46351, AL119418, AL036418, AL038837, AL037051, AL036725, AA631969, U46346, AL119444, U46347, AL042614, AL042965, U46345, AL134518, AL036858, AL134533, AL042970, AL134524, AL119439, AL037205, AL134528, AL042975, AL119401, AI142137, AL119399, AL036924, AL042984, AL042551, AL134538, AL042433, AL042995, AL119320, AL042850, AL119488,</p>

1849	HCRPJ05	877263			AL038509, AL042450, AL043019, AL043029, AL037085, AL042544, AL042542, AL042896, AL037094, AL037526, AL036196, AL037639, AL119304, AL043003, AL036268, AL037082, AL036767, AL037077, AL036190, AL119464, AL036774, AL038520, AL036998, AL038851, AL038447, AL036733, AL037178, AL036238, AL036719, AL037615, AL037027, AL036765, AL036191, AL036679, A81671, AR060234, AR066494, AR023813, AR064707, AR069079, AR054110, AB026436
				Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 349 of SEQ ID NO:1849, b is an integer of 15 to 363, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1849, and where b is greater than or equal to a + 14.	
1850	HCYBD05	877264			AA305049, N50596, AL120893, U55937, U81001
				Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 522 of SEQ ID NO:1850, b is an integer of 15 to 536, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1850, and where b is greater than or equal to a + 14.	
1851	HKLSD44	877272			AI183955, AW136574, AI654355, D13902, D13897, L25648, AC007993, D13899, M17523, S57220,
				Preferably excluded from the present invention are one or more	

1852	HFIXP45	877274	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 522 of SEQ ID NO:1851, b is an integer of 15 to 536, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1851, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1991 of SEQ ID NO:1852, b is an integer of 15 to 2005, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1852, and where b is greater than or equal to a + 14.</p>	<p>L37369, Z58904</p> <p>U69202, AI341555, AI808490, AI347923, AA903736, AA210763, AI139380, AI631374, AA129554, W70085, AI648656, AA932877, AA136568, R39447, F09386, AI351322, AW001825, T77200, F11728, T09089, T10129, H17528, T10128, AI867156, R59448, R59388, AI868687, Z19406, AI474036, Z42465, Z28503, Z38662, F06906, F04874, R13169, H17840, AA348361, R13170, Z45682, AB000814, D89722, U60415, AF044288, AB000812, AB000813, AB012600, U51627, AF015953, AB012601, AB015203, AB012602, AB014494, AF070917, AB000815, AB000816</p>
1853	HAQNS64	877275	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 552 of SEQ ID NO:1853, b is an integer of 15 to 566, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1853, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more</p>	<p>AC005740</p>
1854	HCQDG09	877280	<p>Preferably excluded from the present invention are one or more</p>	<p>N99659, AW404075, AA469906, AI142357, AI142321, AA316159, N42495, R57922, Z59290</p>

1855	HCQCP81	877281	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 236 of SEQ ID NO:1854, b is an integer of 15 to 250, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1854, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1145 of SEQ ID NO:1855, b is an integer of 15 to 1159, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1855, and where b is greater than or equal to a + 14.</p>	<p>AI207647, AI065109, AI207735, AI133231, AI065011, AI133300, AI110723, AI132917, AI064699, AI114870, AI064757, AI133022, AI207442, AI133620, AI174820, AI132979, AI207715, AI110641, AI133496, AA293047, AL047029, AA401001, AA477957, AI827434, AI119430, AA533278, AA149787, AI749240, AA477922, AA876525, AA618213, C17649, AA663700, AW082028, AI267206, AA563936, AI557108, AI951094, AA516319, C18953, AA654914, AA534001, AA633948, AA554486, AA196910, AA554113, AI041814, AI174849, AA595757, AA149676, AI536097, AA214075, AA548841, W29121, AI133692, AA576110, AA983610, AI267350, AA502430, AA458987, AA161230, AL043123, AA548336, AA555071, AA664569, AW073785, C17145, D51211, AI535890, AI253388, C18535, C18706, AA783018, AA410807, AA583220, AA578683, AA886497, AA758834, AI524899, AA179156, AI133161, AA224754, AA192604, AA595503, AA512996, AA897022, AA514885, AA100351, AA293439, AA400969, AA911976, AA604469, AA654272, AA197149, AA580161, AA889892, AA566006, AA908677, AA095070, AI524960, AW368638, AA579806, AA235499, AA576180, AA834302, AA587814, AI535677, AW368637, AA400809,</p>
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	AA079632, AA593495, AA617685, AA653974, AA523492, AA725126, AA428850, AA464752, AA507391, AA291811, AA214074, AI025574, AA834333, C18039, AA143135, AI910010, AA508758, AA527764, AA225751, AW373400, AA481923, AA582805, AA923266, AA554801, AA886075, AA908596, AA938043, AA879019, AA526743, AW378088, AA554076, AA090685, AA985612, AA595582, AA112939, AA564658, AA431814, AA401126, AA492096, AI954125, AA709167, AA171612, AA086336, AA532797, AI783446, AA576154, AA470370, AI910011, AA583092, AA564029, AW371295, AA680242, AW070565, AA679139, AI910004, AA620694, AA091624, AA086135, AA453608, AI133009, AA886562, C03930, AA464751, AA094464, AA194368, AI015676, AA176484, AA877931, AI936914, AA992091, AA708229, AA551520, AA694521, AI680484, AW175960, AA934835, AW371871, AA079806, AA650245, AA724218, AI620133, AA568749, AI525240, AA456614, C03144, R28950, C18721, AW362558, AA506494, AA095478, AA649597, AA534145, AA630561, AW178904, AA632764, AA702642, AA196736, AA916453, AA181000, AA127860, AA214682, AA640699, C15091, AW382590, AA210666, AA249278, AA464045, AA194421, AA216167, AA492256, AA921332, AW364429, AW373695, AW373663, AI253336, AW373685, AI832579, AW364463, AW364399, AA554414, AA159642, AI004318, H01671, AI862143, AI908712, AI052019, AI565446, AW367539, AW178905, AA193076, AI953931, AI708040, AA714432, AW383933, AI833081, AA090224, AI935127, X62996, X93334, M10546, V00662, J01415, D38112, AF134583, AF014882, AF014883, AF014888, AF014889, AF014890, AF014892, AF014897,

1856	HLHEI46	877282	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 922 of SEQ ID NO:1856, b is an integer of 15 to 936, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1856, and where b is greater than or equal to a + 14.</p>	<p>AF014898, AF014901, AF014893, AF014894, AF014899, AF014891, AF014895, D38116, D38113, X93335, AF014903, AF014904, AF014917, AF014910, AF014920, AF014908, AF014913, X93347, AF014905, AF014916, AF014906, AF014907, AF014909, D38114, AF014902, AF014919, X97707, D38115, D38484, X99256, X89843, U95646, X14848, X59268, S75895</p> <p>AI669644, AI925693, AA548892, AA233718, AI961715, AA974649, W16617, AI092738, AW207722, AA233142, T64223, N79582, M27717, M73720, S40234, J05118, U67914, M73718, M73719</p>
1857	HCROB02	877283	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 520 of SEQ ID NO:1857, b is an integer of 15 to 534, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1857, and where b is greater than or equal to a + 14.</p>	<p>AL043619, AI632642, AI168748, AI376972, AI925713, AI703467, AI681157, AI279540, AI521713, AI888798, AA420977, N40163, AW235376, AW027303, AI581196, AI274962, AW080693, AI082185, AA437229, N51345, AW337551, AA761745, AA747627, H97971, AW440981, AA129415, AA514752, AW338816, AI264914, AW367007, AL041883, AI332872, AA768454, AA720670, AA281119, N67945, AI358787, AI978861, D62242, R55623, AA837971, AA835005, D61857, AI640690, AI695207, AA832003, AI701314, D62442, AA741386, AW297680, AI453837, AI335195, AI079445, N23185, AA843537, AI923841, AI651407, AI569072, AW070934, D63021, AI990693</p> <p>AI633741, AI017113, AA305124, AA227077, X58531</p>
1858	HFKIN68	877284	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	

1859	HWHGC93	877285	<p>the general formula of a-b, where a is any integer between 1 to 1716 of SEQ ID NO:1858, b is an integer of 15 to 1730, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1858, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 876 of SEQ ID NO:1859, b is an integer of 15 to 890, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1859, and where b is greater than or equal to a + 14.</p>	<p>AW275818, AI969511, W68529, AA627916, AW275825, W68815, AI375939, H42716, AI611676, R48249, AA642987, AA631033, R73789, AI800001, AW452308, AW117862, AI474539, AI220853, AA730105, AA933672, H25944, AI745535, AW276480, D29313, AW381131, AW380949, C00410, AW381579, AW381130, AI220849, H25979, AA368136, AL035408</p>
1860	H2CBC75	877287	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 544 of SEQ ID NO:1860, b is an integer of 15 to 558, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1860, and where b is greater than or equal to a + 14.</p>	<p>D83865, AA307061, AI400071, AA129911, D80268, D51060, C14389, C14014, D80522, F13647, D81026, AW177440, Z21582, D81111, AW177501, AW177511, C14227, D58283, D80043, T03116, D59610, AA305578, D80022, C14331, D50979, AW369651, AW178986, D80168, D80247, AA285331, D51022, D80038, AA514188, AA305409, D59859, D80166, D50995, D80195, D59467, D51423, D59619, D80210, D51799, D80391, D80164, D59275, D80240, D80253, D59787, D80227, D59502, D80439, D80241, D80014, T11417, D81030, AW352117, D80188, D80269, D80024, D80212, D80366, D80196, D59653, D80219, D57483, D59927, D80248, AA514186, D51103, C15076, D80064, D59889, D80193, C14429, T03269, AI557751, AW352120, D80045, D80133, D80378, D51759, D80302, AW178762, C14407, D80157,</p>

	AW360811, AW377671, AW178893, AW177734, D80251, AW378540, D52291, AW178759, D59373, C75259, AW378533, AW375405, AW360844, C14077, D59627, T02974, C06015, C14298, AW178906, H67866, AW179019, D51213, AW179328, C05695, AW366296, AW378539, AW360817, AW179020, T48593, AW378532, AI525923, AW375406, AA809122, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, AW177731, AW378528, AW178754, AW179024, AW377676, D45260, AW177505, AW178775, C03092, AW360841, AW352170, AW352158, D51250, AW178909, AW177456, AW179004, AW178907, AW178908, H67854, AW179018, AW178971, AW360834, C05763, C14344, AW367950, AW179009, D60010, AW179012, AW178980, AW178914, AW178774, AW178781, AW177733, AW378543, D80258, H67858, D59474, D58246, C14973, C14957, AI525917, AI525227, D59317, D58101, D59503, D51221, AW178911, AW378525, C14046, AW352163, AI557774, AI525920, AA514184, AW177728, AI535686, AW179013, D60214, AI525235, D59551, C16955, T03048, AI525925, AI525215, Z33452, AI525912, D45273, AI525242, Z30160, AW378542, C13958, AI525237, AI905856, AI525222, T02868, AW360855, D80654, D52317, D31458, AB002804, D86959, D88425, AJ132110, AF058696, A62300, AB028859, AR008278, A84916, A62298, AR018138, A82595, AR060385, AB002449, I50126, I50132, I50128, I50133, X68127, AR060138, AR016514, X67155, Y17188, D26022, A25909, A45456, A26615, AR052274, A94995, AR054175, Y12724, AR066488, A67220, D89785, A78862, D34614, Y09669, A43192, A43190, AR038669, AR008443, AR066487, A30438, I14842, Y17187, D88547, AR008277, AR008281, A70867, D50010, A63261, X82626, AR062872, AR016808, AR008408, AR025207, AR016691,

1861	H2LAW79	877288	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 829 of SEQ ID NO:1861, b is an integer of 15 to 843, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1861, and where b is greater than or equal to a + 14.</p>	<p>AR016690, U46128, A64136, A68321, AR060133, I79511, D13509, AF123263</p> <p>AA315705, AA329923, D80268, AA305578, D59502, D80164, D50979, C06015, C14389, D80038, F13647, D59275, D80195, AW178759, D80188, D59467, D80227, AW178986, AA514188, D58283, D51799, AA305409, D51022, D59859, D80043, D80022, C14331, D80166, D50995, D51423, D59619, D80210, D80391, D80240, D80253, D59787, C15076, D80269, D81030, D80378, D80212, D80193, D80196, D80219, AA514186, D81111, AW378533, D59927, T03116, D80045, D81026, D59610, D57483, C14227, D80439, D80522, D59889, T03269, D80024, D80247, AW177440, D51103, D80248, D80241, D80366, D80302, C14014, Z21582, D59695, AW178893, D80133, AW178906, D52291, D80064, D80157, AW377671, AA285331, AW352117, D80251, C14407, AW360811, D80168, D80014, AW375405, AW179332, C14298, AW179328, D59503, AW178754, AW179019, AW378532, AI525923, AA809122, AW366296, AW360817, D59317, AW352120, AW179020, D45260, AW375406, AW377676, AW378534, AW352171, T48593, AW377672, AW179023, AW178905, AW177731, D51250, AW178762, AW179024, AW178971, C03092, AW378528, H67854, H67866, T11417, D59627, AW177456, AW179012, AW178907, AW178908, AW179018, D80258, AW378540, AA514184, AW360834, T02974, C14344, AI525917, AI557774, D58246, D59551, AW179013, D51221, C14973, AI535686, AW367950, AW178914, AW178774, AI525227, AW378543, D59474, AI525920, AW378539, D31458, H67858, AI525925, D51213, D58101, Z30160, AW378525, AW352163, AW178781, D45273, AI525242, AI525235, AI557751, T02868, C16955, C14077, AI525912, Z33452, AI525903, AW378542, AI525215, C13958, AA305720, AI525237, T03048, Z86064, AL049679, AJ132110, A84916,</p>
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1862	HCE2C40	877289	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 250 of SEQ ID NO:1862, b is an integer of 15 to 264, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1862, and where b is greater than or equal to a + 14.</p>	<p>AB028859, A62300, A62298, AR018138, AR060385, I50132, A82595, AR008278, AF058696, AB002449, Y09669, I50126, I82448, I50128, I50133, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, AR016514, Y12724, A94995, AR060138, A45456, A26615, AR052274, I14842, A43192, A43190, AR038669, AR066488, AR066487, AR054175, A30438, AR008443, X68127, D88547, Y17187, A63261, X82626, AR008277, AR008281, D50010, AR025207, AR062872, A70867, AR016808, AR016691, AR016690, I79511, U46128, AR008408, A64136, A68321, AR060382, D13509, AR060133</p> <p>AC005368, AF059650</p>
1863	HMCDDH54	877290	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1868 of SEQ ID NO:1863, b is an integer of 15 to 1882, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1863, and where b is greater than or equal to a + 14.</p>	<p>AL133778, AW408536, AA397575, AA399688, AA725429, AA324765, AA321795, AW243558, R86033, AW271180, H65207, AL134927, AB032995, AB018253</p>

1864	HTPFG64	877295	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1912 of SEQ ID NO:1864, b is an integer of 15 to 1926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1864, and where b is greater than or equal to a + 14.</p>	<p>AW268628, AW408344, AI042425, AA286908, AI093993, AW316896, AI339306, AA736991, AI271364, AI539564, AA287969, AI689236, AI240770, AA035024, AA035512, AA804433, AW001846, AI191237, AI161031, AI015252, AW192454, AI817128, AI867530, AA557231, AI452866, AA804383, AL043242, AA627583, AA809613, T27814, M30818, M33883, AC004497</p>
1865	H2CBQ45	877298	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 544 of SEQ ID NO:1865, b is an integer of 15 to 558, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1865, and where b is greater than or equal to a + 14.</p>	<p>AW263526, AA457032, AW136358, AA828242, AA313271, AL078644</p>
1866	HCQAD77	877299	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 335 of SEQ ID NO:1866, b is an integer of 15 to 349, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1866, and where b is greater than or equal to a + 14.</p>	

1867	HKLSB60	877301	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 522 of SEQ ID NO:1867, b is an integer of 15 to 536, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1867, and where b is greater than or equal to a + 14.</p>	<p>AA225376, AA226684, T94384, R73816, R73841, AA002207, AA225124, AA225347</p>
1868	HLHTC92	877310	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 839 of SEQ ID NO:1868, b is an integer of 15 to 853, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1868, and where b is greater than or equal to a + 14.</p>	<p>R66025, R76969, AW043721, AA553904, AI417134, R58054, U77970, AR059959, U51625, U77969, AR059960</p>
1869	HWLXP93	877319	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1232 of SEQ ID NO:1869, b is an integer of 15 to 1246, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1869, and where b is greater than or equal to a + 14.</p>	<p>AL119992, AI968101, AI806911, AI656159, AI299706, AI918763, AW021370, W49735, AA805636, AA906238, AA884471, W49632, T77508, AW190697, AW020878, AA812095, AA805395, AI767210, H08971, AA909382, AA325979, AA805574, AI911384, AI520787, AC007239, U79290</p>

1870	HUKBC55	877320	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 119 of SEQ ID NO:1870, b is an integer of 15 to 133, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1870, and where b is greater than or equal to a + 14.</p>	AA299388
1871	HE9FH60	877321	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 408 of SEQ ID NO:1871, b is an integer of 15 to 422, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1871, and where b is greater than or equal to a + 14.</p>	AC005037
1872	HHEFC89	877324	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 615 of SEQ ID NO:1872, b is an integer of 15 to 629, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1872, and where b is greater than or equal to a + 14.</p>	

1873	HCEOF08	877326	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1393 of SEQ ID NO:1873, b is an integer of 15 to 1407, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1873, and where b is greater than or equal to a + 14.	N20930, AL135016, AL134824, AA702162, C03031, AW172587, AI139490, AW057590, AI809330, AI521171, N27797, AI953095, AI307324, AA705112, AA969165, AA284734, AA325231, AI219990, AA287154, C03026, AI122656, AA772255, AA782094, AW073074, AI685711, AW192900, AI659385, AA044259, AW451578, AI001129, R28506, R28654, AW296185, AA044143, AF034374, AJ224328
1874	HLHBZ17	877327	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 693 of SEQ ID NO:1874, b is an integer of 15 to 707, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1874, and where b is greater than or equal to a + 14.	C15947, H86703, AA359866, D61503
1875	HWLRP86	877329	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 251 of SEQ ID NO:1875, b is an integer of 15 to 265, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1875, and where b is greater than or equal to a + 14.	AI093660, AW327590, AA706690, AW296986, AA156871, AA243570, AA394118, AA402938, AI870692, AI635237, AI139325, AI286284, AW298025, AI830613, AA736608, AW008771, AW004643, AI277887, AI040732, AA628965, W93926, AI352001, AA954225, AI278572, N33931, AI128499, W46369, AI159880, AI362660, AI350268, AA622742, AA887292, AI276858, AA250840, AA437277, AA039774, AI242916, AI187707, AA804951, AI277891, N63418, AA557131, AA62472, AI251864, AI097294, AA991440, H99028, AI572652, AI610660, AA055193, AI378407, AA719806, AI423797,

1876	HISEQ81	877331	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 499 of SEQ ID NO:1876, b is an integer of 15 to 513, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1876, and where b is greater than or equal to a + 14.</p>	AA729670, AA446337, AI311820, W81234, AI300798, AA156771, AA447436, AI189310, AA664607, AI091132, AI589143, AA918355, AA929050, AI095636, AA563972, N3264, N62211, AA936816, AA932784, AI868453, AW088157, AA970862, R77959, AI205800, N32013, AI582264, AI376345, AI224485, AI274254, AI334251, AI401393, AI079459, AI091021, AI277813, C14412, AI626008, AI279571, R26078, D80204, AA621068, AI400442, R80543, AI479083, AA641535, AI378637, W81271, W81215, R62807, H00547, C14369, AI784466, AI160567, AI160569, C14400, AI926459, C14352, AA442355, C14220, C14335, AA687810, C14509, AA907451, AW025906, AA459765, AL040127, AF125099, AR029580, AF194030, AL133075, S77771, AF114784, AL137429, AL117443, AF207750, AL133645, U67958, S78453, AL137554, Z30970 AA251070, AA663366, AL035663, AC008085, U85196, AE000660, AC004707, AC006023, AF045450, AL133247, AC004897, AL031390, AF135487, Z83850, AF121782, AL109922, AL034410, AC007567, AC007043, AB026898, AP000500, AP000027, AC000064, AC007566, AL031775, AL023581, AC004381, AL022069, A60169, AC023172, AL008629, AF072497, AC009946, A60201, AC004020, AF072499, AF064860, AF072501, A60173, A60168, AB024464, AB024472, AB024457, AB024458, AB024460, AB024479, AB024484, AB024488, AB024459, AB024469, AB024471, AB024478, AB024481, AB024462, AB024467, AB024463, AB024470, AB024473, AB024475, AB024474, AB024482, AB024476, AB024465 AA779795, AI808514, AA632293, AW263707, AI264254, AI573067, AI268002, AA983452, AI863711, AI434573, R38583, N66320, AA297783, AA889997, AW020741, AW084236, AI961833,
1877	HWLWA0 7	877332	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	

1878	H2CBS31	877333	the general formula of a-b, where a is any integer between 1 to 636 of SEQ ID NO:1877, b is an integer of 15 to 650, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1877, and where b is greater than or equal to a + 14.	AW409834, AI914107, R37238, AI202244, AW050863, AI656365, AA318265, Z39970, AI767672, AA757332, AI557697, AI547137, T69960, AI541216, AI535787, AI547038, AI557382, AI541533, AL122101, AL008582, AL035659, U44059, U06935, Y11149, AJ132931
			Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 707 of SEQ ID NO:1878, b is an integer of 15 to 721, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1878, and where b is greater than or equal to a + 14.	AI248204, AA677184, AI380963, AA284845, AW081587, T18597, AI525556, AI557084, C14322, AI541205, AI525500, AI557533, H65400, AW023216, AI557082, AA308485, AI541321, AI557731, AI557238, AI557263, AI557602, T69960, AI541034, AI557258, T61541, AI557697, AI535813, AI525856, AI557543, AI541027, AI535994, Z66121, AR050070, A62298
1879	H2CBN88	877334	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 550 of SEQ ID NO:1879, b is an integer of 15 to 564, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1879, and where b is greater than or equal to a + 14.	AA054379, AA307842, AA018519, AI581828, A59459, A59517, AF048695, U52377, A59470, U53138, A59468, U52375, A59469, U52376, A59466
1880	HWLOK01	877336	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by	AI287235, AA587620, AA729307, AI821703, AI698647, AI688112, AI767799, AA887822, AA973956, AI693558, N78520, AI824444, AI609594, AI682837, AI690813, AI584118, AI824357,

			<p>the general formula of a-b, where a is any integer between 1 to 263 of SEQ ID NO:1880, b is an integer of 15 to 277, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1880, and where b is greater than or equal to a + 14.</p>	AI224373, AI886355, AI537516, AW167777, AI911020, AI567802, AW151451, AI954293, AW194014, AI888095, AI439903, AW079859, AI885905, AI635528, AI049669, AI689096, AI636309, AW131165, AW090681, AW084440, AI538008, AI784230, AI491710, AI925164, AI220828, AI432532, AI696714, AI472566, AI874238, AA761557, AI251221, AI620643, AI886940, AI285439, F34241, AI553926, AI628325, AI559863, AI954095, AA743430, AI804505, AI357902, R39624, AI918554, AW079572, AW084896, AI580694, U82987, AC005218, I09499, AF109683, AL096728, AJ001388, X52220, U57715, AF188712, X95310, U51123, AF081571, X66975, X57084, U79523, X66862, AF090923, AB031064, X68560, AF078844, AF114818, I22272, AL137663, E02253, X60786, AF002672, M92439, X99226, X98066, AL133067, AJ132433, AF153205, AF167995, AR064250, AF119337, AL133069, AF114170, AF200464, AF090886, X63574, Y08769, AR012379, AF141976, X06146, AF077051, AF003737, L40386, A65341, AL080146, J05032, AL050108, AJ012755, AF038847
1881	H2CBR23	877338	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2508 of SEQ ID NO:1881, b is an integer of 15 to 2522, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1881, and where b is greater than or equal to a + 14.</p>	AW340662, AW316660, AI970681, AA889159, AI458059, AI590367, AI679607, AI797703, AW338264, AI739401, AA523715, AA425084, AI216290, AA515788, AA526334, AI677745, AA134355, AI674509, AA143532, AA313282, AA927236, AA315699, AI620159, AA922890, AW062635, AW374778, AA100752, AW374734, AW368107, AI214469, AA134354, AW368106, AA385843, AI919003, AW379835, AW389815, AW206252, AA213695, AA305544, AW418789, AW368007, AW368008, AW374786, AA313396, AI940533, AI940454, AW062630, AI920939, R25623, AW176592, AA376950, AW389787, T48510, AW178927,

1882	HCYBK82	877339	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 441 of SEQ ID NO:1882, b is an integer of 15 to 455, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1882, and where b is greater than or equal to a + 14.</p>	AA314737, AW262708, AA626931, AW390922, AA074381, AI219498, AW390912, R27011, AW390971, AW391129, AW379257, AW391053, AA746736, AW390981, AW276892, AW391030, T24527, AI815057, AW057823, W52053, AA524509, AW374790, W60597, AFI32818, DI4520, AF079852, D82785 AA305544, AI970681, AI590367, AI797703, AA425084, AW316660, AI458059, AI739401, AI679607, AA889159, AW340662, AA922890, AI677745, AI216290, AA515788, AI674509, AA134355, AW338264, AI620159, AA100752, AA927236, AW206252, AI273521, AI919003, AA626931, D59859, D80227, D80269, D80195, D59275, AI214469, D59502, D80391, D59787, D58283, D80038, D80022, D80166, D51799, D81030, D59610, D80196, D59467, D51423, D59619, AA524509, D80378, D80210, D80240, D80253, D80043, D80164, D80212, D50979, D80193, D80188, C14331, D80219, D59927, D57483, D50995, D80366, D59889, C14389, D80241, C15076, D80024, AA305409, D80045, C14429, D81026, T03269, C75259, D51060, AW178893, C14014, AW178775, D80134, D51022, AW179328, D80949, AA514188, AA305578, D80268, F13647, D51250, AW177440, AW378532, AW418789, AW369651, D80522, D58253, C14227, D80168, AW352158, D80251, D81111, AA514186, D80248, AW178762, AW177501, AW177511, C14298, AI910186, Z21582, AI905856, D80064, D80133, AW352117, AW360811, C14407, AW377671, C05695, AW176467, AW375405, AW360844, AW378540, D80132, AA285331, AW366296, AW360817, AW375406, AW178905, AW378534, AW352171, AW179332, D51097, AW377672, AW179023, D80439, D80302, AW377676, T03116, AW360834, AW352172, AW352174, AW177505, AW360841, AW178909, AW178907, AW178906, AW352170, AW177731, AW178754, AW179019,
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1883	HCRMK82	877340	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p> <p>AW262592, AW367357, AI953876, AW265047, AI290247, AI261967, AA826909, AI336616, R46813, AA055350, R39815, N73560, H16260, AW365173, AC006251, X68487, M97759, AR044912, I20962</p>

1884	HDTBO06	877344	<p>the general formula of a-b, where a is any integer between 1 to 844 of SEQ ID NO:1883, b is an integer of 15 to 858, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1883, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1405 of SEQ ID NO:1884, b is an integer of 15 to 1419, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1884, and where b is greater than or equal to a + 14.</p>	<p>AI627846, AI686196, AI766030, AA159730, AA159731, AI478216, AI745281, AA683246, AA252582, AW085579, AA936240, AA464699, AA732427, F11142, N62186, AA825887, N90846, N77132, AA376347, F08813, H50638, AL121257, AL021937</p>
1885	HEGAM94	877346	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1999 of SEQ ID NO:1885, b is an integer of 15 to 2013, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1885, and where b is greater than or equal to a + 14.</p>	<p>AI935271, AI762915, AI809275, AA398950, AI127111, AI813351, AA749298, AA705921, AI343768, AA776967, AA766587, AW070583, AI052069, AA291984, AA715043, AA460658, AA804876, N44967, AA394137, AW071467, N93279, AI343843, AA393817, AI452856, AA292934, R90963, W72279, AA861873, AA526081, AI819873, AA226137, AA262543, R72676, T17354, AA514931, R73310, R90959, W25119, R64455, AI783605, W76306, AI624523, AA490863, AA261906, AI864544, AW068181, AA860972, R72980, H83354, AA359560, AI632879, AA291985, AA255873, AA325261, AI057127, R48640, R18641, AA461005, AA261923, R18640, H83702, Z38970, N36710, AL134185, H90736, H59529, H90786, AI784395, AA652150, AA652026, H60402, Z42828, AA226136, AA776284,</p>

	AA491047, AA393770, AA909279, D20449, AI696435, H11527, AA398313, R41605, AI584130, AI473208, AI862134, AI273856, AL036705, AI539260, AI673140, AA715307, AA809974, AI369807, AL135047, AI440260, AW083572, AI554344, AA580663, AI683972, AI440238, AW151974, AI923989, AI440263, AI683568, AL138376, AI554821, AW020561, AA641818, AA761557, AW366372, AI653402, AA115869, AA748353, AW055075, AI432644, AI538298, AI089748, AI587000, AI590043, AL134830, AI682640, AI954080, AI691131, AI572396, AW087262, AI094749, AW162194, AI613038, AI557104, AI866469, AI539690, AW089439, AI475270, AW087445, AI625293, AA065052, AI289310, AI678857, AI445505, AI370965, AA282824, AI866457, AI872423, AL135012, AI591093, AI219380, AI250282, AI889728, AI567582, AI468959, AW151132, AI498716, AI538805, AI419826, AI921155, AI685798, AW075382, AI149977, AW195253, AL119748, AI915795, AW243886, AW130129, AI925736, AW168012, AI798114, AL121270, AA609644, AI440236, AW268122, AI680221, AI064830, AI473471, AI623389, AI283322, Y11254, AR050959, AC002464, X06146, AL137557, AJ238617, AF150103, D44497, AL031732, AI5345, AL133084, Y18678, A93914, AF126247, AF100752, AL133608, AL110171, AL117460, M85165, I03321, U49434, AL137539, AL137459, AF082526, E12888, AF145233, AF118094, AL133113, U92992, AC002287, AF017437, I33391, AL133637, AF069506, AL122101, AL133080, AL133053, AL122049, U70981, AF115392, X82434, AL117587, U67082, AL137284, AR034821, X15132, AF043642, AL137479, AF051325, I46765, S63521, AF004162, AF161413, AJ238093, AL122110,

1886	HDTAH72	877347	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1879 of SEQ ID NO:1886, b is an integer of 15 to 1893, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1886, and where b is greater than or equal to a + 14.</p>	<p>AF113699, AL137558, AL078630, U42766, AL133049, AL080074, AR066486, E12580, AL050149, U51123, AF146568, U53505, AR064250, Y10655, AL137526, AF159148, AF039202, AL049276, X63410, AB026995, I52013, U55017, X67688, U68387, AL133015, AF010191, S78453, AL050280</p> <p>AI268315, AI344319, AA531249, AI952869, AI492586, AA588629, AW044245, AI246254, M78525, AA621945, H97851, AW082375, R34105, AA376468, AA376668, AA376330, AA224458, R34106, AA166983, D58161, AI919577, C21057</p>
1887	HARAG42	877351	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 419 of SEQ ID NO:1887, b is an integer of 15 to 433, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1887, and where b is greater than or equal to a + 14.</p>	<p>AA534438, AA296922, AI732343, AA502919, AI732203, E13091, AR028526, AF048700, E13090</p>
1888	HCQDL20	877355	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 399 of</p>	<p>R10554, AA873089, AW007836, AA376913, AA702706, AI861809, AI052145, N74374, AI739300, AW055276, T40120, AA343939, T40984, J04813, AF209389, S53047, M14096, M18907, X12387, J04449, AF182273, D31921, M13785, X90579, L26985</p>

1889	HLQGF34	877356	SEQ ID NO:1888, b is an integer of 15 to 413, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1888, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 769 of SEQ ID NO:1889, b is an integer of 15 to 783, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1889, and where b is greater than or equal to a + 14.	AW007836, AA873089, AI052145, AA702706, AI739300, N74374, AW055276, T40984, R10554, T98255, N74426, AA376913, AA416822, T40120, AI861809, AI678780, AA343939, T98311, AA878869, AI761228, X90579, L26985, AF209389, J04813, S53047, X12387, M14096, M18907, J04449, D31921, AF182273, M13785
1890	HCDCF78	877358	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 385 of SEQ ID NO:1890, b is an integer of 15 to 399, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1890, and where b is greater than or equal to a + 14.	AI703276, AW188039, AA451771, AA316434, AI690259, AI681353, AA045904, T29610, AI627945, AW188125, AW188144, AA099043, AW237788, AI470110, AW170058, AI654577, N21480, AI678192, AI745496, AW292165, AA449964, AI167571, AI186510, AI392894, AI459190, AW196865, AI761196, AI199686, AA767664, AW373992, AI129612, AI272655, AI272824, AW051688, AI765956, AI220043, AA099044, AI681033, AI628056, D17400, M97655, D25234, L76259, M77850, U63380, U63381, U63382, U63383
1891	HMIBES9	877361	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3021 of	AL043108, AI912625, AI268389, AA541465, AA626702, AI814451, AA703936, AW137200, AI769406, AI814300, AA843784, AI677825, N90942, AL133947, AI122639, AI583230, AI956122, W58349, AA043151, AI911861, AI146802, AA433844, AA829527, AI829684, AA393149, AI248810,

			<p>SEQ ID NO:1891, b is an integer of 15 to 3035, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1891, and where b is greater than or equal to a + 14.</p>	<p>AW148927, AI693209, AA313329, AI634356, AA165311, AW015279, AA435562, W48807, AA770568, N33995, AW337556, AI200909, W52177, AI925678, C75536, AA740996, AI056139, AA639344, AA062558, AA044616, AI270757, N51453, AI088578, W49807, AI302975, AA975134, AA176436, W58474, AI288721, AI090980, N36852, AW440100, AA708923, AW403227, AA746255, AA846487, AI075216, N56895, AA644436, W60313, W52178, W60262, N34473, R80598, N35139, AA063056, C75383, AW080740, N46123, AA468100, AA888852, AI339843, R80597, AA178883, N36227, R23907, AW272245, AI185045, AW204631, AI244465, AI347721, AA305934, AA158097, AW027841, R23998, N36871, AA262561, AA626808, AA040760, AI597694, HI3872, R78677, AI127632, AA158096, R24938, N46141, AA165180, H94816, AA165152, T28111, H89174, T20158, AA857506, AA169476, AI523244, H97960, AA366030, AA885512, N32999, AA042803, AI291968, AW271335, AI928012, AI582354, AA905984, AI374631, AI391678, AA654121, AI470822, AI659820, AI435866, AA478972, AI672499, AA782245, AI683540, AI242454, AI963948, H83799, AA098811, AI970953, AA098979, W47019, N24550, AI656583, AA098926, AI811590, AI346328, AI702054, AA771762, AI926667, AI565050, AI669676, AW300195, AI078689, AI910690, AA991913, D20104, AA610706, AA329386, AW023680, H80964, AI824554, T70014, R23906, AI432060, F00987, AA677620, AA450363, H00588, AW179301, R45201, R82731, AI912968, AA100143, AI681692, AI015103, R78922, N89579, D31543, R23127, T39145, AA069266, R23125, H83940, AW404323, AA730321, AA091296, R23124, AA069494, AA808762, AI674511, T69942, AA319786, AI370594, AA370257, R23126, Z28753, T29433, T10467, AI420216, AI365551, AI597664, AI972622,</p>
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1892	HMKAK86	877363		<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 362 of SEQ ID NO:1892, b is an integer of 15 to 376, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1892, and where b is greater than or equal to a + 14.</p>
1893	H6EDF71	877370		<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1290 of SEQ ID NO:1893, b is an integer of 15 to 1304, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1893, and where b is greater than or equal to a + 14.</p>

1894	HOELC15	877373	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2603 of SEQ ID NO:1894, b is an integer of 15 to 2617, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1894, and where b is greater than or equal to a + 14.</p>	AA777967, AW166867, AA535376, AI884496, AA953028, AA969906, AW276245, T40454, AI889115, AW137558, AA279095, AW393132, AA773707, AW393156, AI932456, AA648104, H16423, X69398, Z25521, AF017437, AB012693, Z25524, D87659 AI625476, AI379830, AW190863, AA861203, AI952079, AI921025, AI955634, AI587088, AI926590, AI572602, AW079778, AI818020, AI978757, AI963206, AI955860, AW190795, AI587161, AI924265, AW190680, AW192746, AW152121, AW337223, AI823711, AW190516, AI623641, AI674875, AI624269, AW192636, AI573153, AI620393, AI538927, AI683156, AI860782, AW074297, AI683833, AI685181, AI923388, AW173674, AI587424, AI627454, AI453249, AW131016, AI623652, AI984752, AI084796, AI802264, AI110775, AW074064, AI571619, AI097497, AI804583, AI697355, AI445032, AI570335, AI884376, AI587134, AI754165, AA910529, AI560022, AI813449, AI028123, AI333407, AI753639, AI432646, AI683000, AI818473, AI628183, AI913951, AI193030, AI587385, AI190931, AI571989, AI520669, AI198766, AW152597, AI587043, W94653, AI520755, AI868031, AI492736, AI190373, AI571651, AI971361, AI285408, AI250818, AI299640, AA599333, AW337268, AI992004, AI313475, AI191817, AA872416, AA921724, AI754230, AI962031, AI289514, N24418, AA622296, AW152146, AI753534, AI751083, AI074992, AI436436, AI559198, AA173912, AW337830, AA722578, AI304733, AI632052, AA854050, AI680348, AI751084, AI086679, W45594, AI610384, AI086711, AA716327, AW241380, N40742, AI076955, AI692374, AI754958, AI358461, AA904719, AI262790, AA947025, AI247519, AI280126,
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AI830239, H96641, W76543, AI819930, N31417, AA313131, W74348, AI452827, AI288849, AI752417, AI302536, AI582458, AA598601, AA128732, C75417, AA909646, AI032902, AA075184, AA171822, AW022850, AW002778, N23836, AI817387, N24881, AI814964, AL048124, N25180, AI304602, AA669993, AI921652, AA595396, AW380756, AI302375, AI269579, AW339078, AI824720, AA775137, AI439371, AW239521, AA887673, N24118, AI362463, AA515311, H99628, AW337988, AI700215, AI815228, AW002735, N36048, N31008, W49555, AI050040, AI146896, AA687741, AA862753, AA884028, AA076641, AA470703, AI689178, AI436443, AI032308, AA174013, AA996198, AI249384, W44341, AA569689, W45649, AI968532, W44455, AA703635, AI862948, AW449712, AI579942, W04328, AA962252, AA158264, AI885948, N40273, AI142967, AW193168, AI926056, AL047210, W45595, AI269843, AA156332, AA128733, AI290452, AI383555, AW366953, AI862589, AA969736, AI570732, AI220458, AI335877, R00074, AW021966, W49554, AA157265, AA329010, AI018121, N36300, AI140345, AI090448, AI752028, AI131364, R66674, W84537, AA661834, AI446707, AI868207, AA642245, AA075185, AI906030, AW243595, R92565, AI476033, AW198023, W94614, AW059924, AI784436, AI932522, X64875, I09499, M31159, AR021228, M35878, M31837, M76478, AF085482, J05228, S56205, M33300, AR021226, X81581, AR060428, AR018791, AR018793, AJ223172, Y16351, I09493, A62298, A84916, AR018138, A62300, AJ132110, Y17188, D26022, AF058696, AR008278, AB028859, X67155, A25909, A82595, A67220, D89785, A78862, D34614, X82626, AR016808, A30438, D88547, I82448, Y12724, AR060385, X68127, U79457, AR025207, A94995, AB002449, AR008443, I50126, I50132, I50128,				
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1895	HAJBN08	877375	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 536 of SEQ ID NO:1895, b is an integer of 15 to 550, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1895, and where b is greater than or equal to a + 14.</p>	<p>I50133, AB012117, Y17187, I09494, A45456, AR066488, AR016514, AR060138, A26615, AR052274, AR008277, AR008281, A85396, AR066482, A44171, X64588, Y09669, A85477, A43192, A43190, AR038669, I19525, A86792, AF135125, AR066487, X93549, U46128, AR066490, I14842, D88507, AR016691, AR016690, AR054175, D50010, I18367, A63261, AL133015, AR008408, I79511, AR062872, A70867, AL080118, AR029580, D13509, A64136, A68321, AR060133, A08456, A31057, T47722, T47723, T55703, T91272, T78911, T78964, T95679, T96956, T97068, T98840, T99143, R00385, R21263, R21264, R31911, R31957, R62970, R63024, R63509, R63555, R78123, R79931, R80019, H03256, H04441, H27156, H47899, H47900, R92467, R98387, H78782, H79278, H79389, H85490, H96640, N20906, N30033, N31502, N74163, AA026408, AA040602, AA040685, AA079412, AA173557, AA190828, AA491953, AA492100, D78982, N85431, W26462, C00757, AA173722, C75590, AA600070, AA678220, AA732900, AA852262, AA852355, T23896, T23897, T23930, F05444, AI360546, AI473496</p>
1896	HFVHT62	877377	<p>Preferably excluded from the present invention are one or more</p>	<p>AA350728, AA316351, AA112015, AA216692, AW246040, AA693635, AW407512, N55660, AI362985, AJ002190, AF043937</p>

1897	HILBZ32	877378	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 843 of SEQ ID NO:1896, b is an integer of 15 to 857, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1896, and where b is greater than or equal to a + 14.</p>	AA789097, AI005313, AA777794, AI041134, AA856987, AI700317, AA769862, AA804528, AA831168, AA494334, AI143496, AI141222, AI372907, AA831166, N64843, N92087, AA769007, AI075136, AI076701, AA305065, AI076409, AA315766, AI273523, AA450169, AA314707, AA284166, AA158102, AI352491, AA257019, T96666, T28941, AA352693, AA627383, AA257103, AA464156, AI206700, T96781, AA158059, AA055005, AA757304, AW059834, AW340182, AA092745, AI678081, AW368066, L27711, U02681, I30245, L25876, AL049778
1897	HILBZ32	877378	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 765 of SEQ ID NO:1897, b is an integer of 15 to 779, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1897, and where b is greater than or equal to a + 14.</p>	AI739135, AW173105, AI066521, AW261971, AI954494, AA830348, AA789097, AA284072, AA804528, AI005313, AA777794, AI041134, AA856987, AI700317, AA831168, AA769862, AL039012, AA494334, AI143496, AI141222, AI372907, AA831166, AA769007, N64843, AI075136, AI076701, AI273523, AI076409, AA305065, AA450169, N92087, AA315766, AA158102, AI352491, AA314707, AA257019, T28941, T96666, AA627383, AA464156, AI206700, AA257103, AA284166, T96781, AA158059, AA352693, AA055005, AA757304, AW059834, AW340182, AI678081, AW368066, AA450104, AA092745, L27711, U02681, L25876, I30245, AL049778
1898	HAPOR25	877380	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3296 of SEQ ID NO:1898, b is an integer of 15 to 3310, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	AW272420, AW242297, AA165082, AW263065, AI378393, N34290, AA488409, AI347346, AA701568, AI174216, AI668973, AI918787, AA948264, AA594684, AW299275, AI222510, AI243187, AW070414, AI076437, AA488545, AA470051, AW380452, AA164540, AI076271, AA657436, N75339, AI473793, AW025483, AA701579, N58947, AA577451, R77252, AA897628, T62571, AA102397, R77251, AA704389, AI697267, AA826647, W90783, AA632480, AI032244, AA583140, W01846, T31054, Z43387,

			NO:1898, and where b is greater than or equal to a + 14.	<p>AI824451, AI244271, H62456, AA916276, AI084430, T29815, T62961, AW444516, D25970, N48191, T63212, AA252955, AW419194, H61450, T63194, H17988, AA939180, AA535982, T35269, AA962328, R06301, AW304307, R68203, AW368013, AW364400, AW364354, AI264114, R68204, R06246, AW364364, AI262874, AW364338, R89888, N44181, AW384579, R89849, AI565221, AW050406, AW362424, AW384580, D12170, AW294181, T24830, AW337772, AW364399, N53338, W90688, AA253123, AA102379, H17987, AI344295, AW364396, X73882, Y15197, AL023284</p>
1899	HELBN30	877384	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1170 of SEQ ID NO:1899, b is an integer of 15 to 1184, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1899, and where b is greater than or equal to a + 14.</p>	<p>AA059485, AA278695, AA654731, AA278203, AI475552, AA001323, AA057712, AI628148, AI935011, AI479111, AI248082, W49737, AA009479, AW449837, AA447481, R06619, AA040474, AI925539, AI347058, AA740520, W86694, T29489, AA341731, N59177, AA632345, AA057395, AA836847, AI683333, AI805718, AA120879, H59542, AI379485, R25939, AW182401, T95573, AA281718, AI918021, N41576, AA262292, AI425046, R01630, T50780, AA993907, AW151322, AI911765, AA740339, AI186344, AI583330, W25428, AI193756, AA001910, N75914, AA921773, AW363532, AA693648, AI242044, AI753406, AA588342, M60618, AF056322, U36501</p>
1900	HHFMH12	877387	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3864 of SEQ ID NO:1900, b is an integer of 15 to 3878, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1900, and where b is greater than or equal to a + 14.</p>	<p>AI096627, AI750041, AI589918, AI971206, AI567485, AI870013, AI492558, AW082735, AW071873, AW068564, AI494149, AI431911, AA158252, AI422826, AI493768, AI363488, AI460100, AW104306, AA100840, AI755276, AA476207, AI992015, AW026405, AI190217, AI738539, AI439206, AA037160, AI361483, AA877117, AA425180, AI372673, D80801, AA678831, AI376927, AA160849, AI038534, N77542, AI418906, AI359937, AI084962, AI356122, W88956, AI499098, AA325211, N62261, N94717, AA043409, AA789304, AA355373, AI372674, H63354, AA313505, AA351821,</p>

1901	HBXAC19	877388	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 161 of SEQ ID NO:1901, b is an integer of 15 to 175, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1901, and where b is greater than or equal to a + 14.</p>	<p>AA349465, D80800, AI937868, AA102488, AW150270, AA349466, AW339965, AA330631, AA158399, AW083453, AA156068, AA350488, AA161281, AA654017, AW075493, AI094530, AI205125, AI686221, H41345, W89039, AA548969, AW338483, AI334361, AA102489, AI961671, AA351820, AI570099, AA367255, T98883, AI926390, AA631107, AA301787, AA143489, T18598, AA102418, AW189862, AA027021, AA376185, AA904590, D31580, AI590590, AW082999, AA702382, W88756, AL042199, AW134571, AI198157, AW009324, AI811883, AW003196, D29325, D29337, AI702386, AA043408, R45887, H50462, AI858384, AI624949</p>
1902	HWLVN37	877390	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1793 of SEQ ID NO:1902, b is an integer of 15 to 1807, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1902, and where b is greater</p>	<p>U57001, U66406, U62775, AF025288</p> <p>AI887998, AA452467, AI498141, AI468007, AW088566, AI143229, AI468019, AI924042, AI302076, AW130545, AW406571, AA552071, AI857610, AA148267, AA496087, AA148266, W37673, AA805118, AA894716, AA416636, AA729667, AA722262, N44792, AI436679, AI313409, AA846175, AA866080, AI26664, AI459662, AA569841, AA865000, AI313239, AA708711, AI184015, AI311722, AA626625, AW406853, AW189410, AW406861, AA406040, AA976761, AI186007, AA136156, AW193942, AI150739, W15643, AI365686,</p>

			than or equal to $a + 14$.	AI498762, AA865546, AI189894, AA740394, AA133324, AI129125, AW022772, AA493572, AI202523, AA676968, AA329249, W05485, AI038788, AA716709, AA126228, N25485, AA830025, AA126339, AI358727, N56854, AA978006, AI719099, W37534, AA953629, AA663651, AI693987, AA076372, AW090432, N32431, AI362222, AA617762, AA782855, AI161045, C04906, AI356648, AI371415, AA136072, AW044060, AI937310, AA416713, AI500608, AA991563, AA126566, AA305695, AI358972, AI926596, AA384023, T40849, AA076501, AI991793, AA730185, AI698869, AI949134, AA687665, AA121023, AA988991, AA369523, AW275473, AA339483, AA300942, N35481, AI363884, AA369524, AA355468, AA845483, F29460, W52535, AI810861, AA582099, H19093, N80825, AA708946, AA384975, AA379550, AA373476, AA648147, AI818027, AA534415, N56694, AW083204, AA372060, AA496767, AW007697, AA748067, AI655704, AA987626, AA042892, M62297, AA043512, AA043513, AA384593, AA372059, AI086772, AI279119, AI635811, AA384973, AW002936, AA480294, AI276970, AA515682, AA043019, AA773750, AA169816, AL038644, AA133400, AW080380, AI434682, AA384974, AI300543, AA176343, AI278392, AA706110, AA678943, AA515683, N20394, AA375542, AR030958, AB014532, AC004922, S77329, U11861, AF058791, T39861, AI421422
1903	HWHQH17	877393	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 2796 of SEQ ID NO:1903, b is an integer of 15 to 2810, where both a and b	AI346901, AI191444, AW001394, AL036955, AI660571, AI818120, AI018511, AI052368, AW027921, AW007170, AA603096, AW057755, AA485948, AI149233, AW081475, AI677997, AW410351, AW300638, AA488667, AW409854, AA402239, AA486496, AA486050, AW409878, AA486507, AW409856, AW194332, AA554501, AW084623, AW409835, AA617980, AI040998,

		correspond to the positions of nucleotide residues shown in SEQ ID NO:1903, and where b is greater than or equal to a + 14.	AI804511, AW410178, AI434575, AI589609, AA664262, AW409614, AA430234, AA479644, AA488187, AW305031, AA410912, AI313158, AA488684, AI355319, AA430559, AI190998, AA676466, AW409596, AA476902, AA878887, AA902228, AI687559, AI074371, T51288, AA459629, AW303926, AA599915, AA485902, AI126733, AI445068, AW409577, AA593873, AI016575, AA719627, AA488240, AA482604, AW303900, AA486198, AA430025, AA847289, AA188216, AW409876, AI246054, AA402700, AA421202, AA416583, AA847234, AA630648, AI802458, AA211469, AA190840, AW025006, AA035463, AA186363, AA992133, AA670258, AI469676, AA426620, AA179226, AW300817, AI161092, AI199582, AI339697, AA993589, AI083639, AW001456, AA758347, AA633544, AA987682, AA486304, AI889937, AI581339, W45576, AA701272, AI565866, AI347560, AI079926, AI146534, AA601655, AI459359, AA489322, AI247541, AI469729, AI074396, AW001571, AA579941, AI278644, AI459387, AA513381, AA477332, AI076715, AA976943, AA833630, AA149959, AI921791, AI280849, AI174208, AI066715, AI285157, AA194865, AA132930, AI673225, AI269574, H16257, AA588880, AA133075, AA188878, AA627878, AA025145, AI568930, AA196286, AI220665, AA723359, AA954162, AA489559, AA630299, AA135404, AA188819, AI362548, AA132630, AI095498, N78671, AI453521, AA804703, H05127, AA477015, AI802650, T71317, W20292, AA665815, AA186894, AI984554, AA488648, W72251, AI094464, AI810394, W03180, AA026596, AA112256, AA486030, H39838, AI074194, T68162, AA11856, AW247688, AA029620, AI091141, AI700362, H39837, AA724925, W69320, R76662, H95672, W37885,

	H95068, AA612954, W37947, AA580556, H20424, AA459404, AA180270, H49118, H22277, AA120848, AI284303, W69299, AA635599, AI032213, AI377944, H44934, AA180255, AA046132, AI613018, AA973267, AA113087, AA026212, AI469745, AA551884, H90593, AI005020, AI222480, AW410352, AA053730, T51921, AA180226, H95056, H05168, AI567382, H51410, AA132447, AI701332, AA580777, H16457, AW068052, AI669265, W00631, AA676405, AI026137, H94704, AI075680, AI355337, AA654907, F07217, W87892, AA329066, AA190498, H26731, AW166037, AI309017, AA180254, W15177, T57363, AA085889, W87601, AA688235, AA046089, AA701113, H94488, X01630, AR052178, M26198, M36708, M31690, X72012, L00084, U37439, K01846, AC004616, K01845, AC003989, Z23142, S69407, X77952, D16950, L00081, U37442, Z36810, D16853, K01848, K01847, L00079, M31693, L00082, L00083, M31698, M34903, L00080, M31697, U37441, T51412, T51710, T54123, T57446, T59510, T59556, T61192, T40610, T68237, T69436, T69569, T69637, T70491, T71461, T71584, T71607, T97732, T97836, R18156, R37533, R40277, R41703, R41703, R40277, R74521, H04540, H22242, H24788, H26732, H41805, H44660, H44973, R83630, R91865, R92705, H49054, H51452, H54616, H54617, H56301, H58770, H58822, H63647, H63648, H73772, H79204, H79709, H90004, H90499, H94167, H94574, N68952, N69990, N74472, N81114, N91877, N93029, N94630, W19782, W21267, W45627, N90672, AA025144, AA026595, AA035442, AA069289, AA120847, AA128188, AA128189, AA135326, AA152174, AA180269, AA188704, AA189129, AA196144, AA468336, AA503585, AA512973, AA513355, F15917, AA631927, AA633458, AA658505, AA688002, AA864500, W07470, C00341, C01724, AA482538, AA628208, AA669415, AA719284,

1904	HDPFP36	877396	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4025 of SEQ ID NO:1904, b is an integer of 15 to 4039, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1904, and where b is greater than or equal to a + 14.</p>	AA852208, AA852209, T10360, T10361, T58496, F03496, AA694056, AI269768, AI560475, AI139867, AI150406, AI659249 AW242873, AI638226, AW014789, AI928114, AI478983, AI075890, AW242842, AI675131, AW014540, AW372249, AA630413, AI313145, AI653172, AA134046, N32561, AI752719, AI653034, AA489839, AA551242, AA480899, N53472, AI092888, AI479478, AA210774, W00846, AI761985, AI276657, AW151703, AI830594, AI589236, N41905, AI753040, AI335745, AA489659, AI027334, W46149, W57952, W58099, AA846532, W58085, AI423910, AI126500, W00854, AA923540, AA669903, W73619, AI620667, AA312838, AI041901, AA126268, AI357683, W58035, W73667, AA232572, AW002525, W03762, N98674, H06349, AA700807, AI134045, AA283647, AI752720, AI693833, AA064885, AI093714, AI033028, AI167615, AA902590, W46161, N23622, AA704812, AA910235, AA126386, AA480960, R40680, AI032472, N41728, AI675041, AI590268, R80530, AI344793, R80419, AA480245, AA991447, R86064, H06293, AI318610, AA064808, AA810121, AA283646, H98584, N23621, AA811695, H09433, AI241317, AI470594, R40250, AW181920, AA374575, H09084, T90456, AA569988, H84159, H84160, AI700949, H89683, N66151, R14352, AA373949, R14299, AI538863, AA644291, N89241, R91989, N68235, AA810813, AI084359, N72476, AI547027, AA232625, H89759, AA564759, AW382356, AW371061, R57492, AA249229, H97526, D50917
1905	HCFMY07	877406	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3975 of</p>	AW004054, AI135021, AW173336, AA846316, AI208817, AA861115, AW377287, AI884576, AA403122, AW377237, AA449008, N22548, AI612907, AI697252, AI337225, AA488782, AA166884, AA114179, AA824590, AA723930, AA488998, AA534667, AI335733, AA922029, AA846011,

1906	HSYBP46	877408	<p>SEQ ID NO:1905, b is an integer of 15 to 3989, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1905, and where b is greater than or equal to a + 14.</p>	AA732053, AA807156, N31650, D61907, AA604009, AL121217, C75317, AI183839, AA285257, AI631612, AI701860, AI872948, AA724511, AA593781, AI955474, AA490358, AA348286, AW014127, AA034503, AW382984, AA114216, AA714035, N44341, AA083061, AA401848, D82796, AA813448, AI707514, AW242769, AI695226, AA039307, D82808, T57805, AI865947, AA490260, D79331, H45236, AA312976, AI904624, R62919, D59331, H67517, R62920, T96420, R21224, D62945, AI648439, AW383006, AA789111, R63601, D62711, AA336494, AA340489, T39404, AA247910, N67607, T82367, AW070205, T27263, AI625255, H68430, AI824522, D82698, R21223, AI401720, N59296, AA249438, AI217233, D82710, D59332, AA565565, AA450364, R95490, AA490906, C01268, AW363022, AA913585, AA491092, EL13124, U42424, U58512, U61266
1906	HSYBP46	877408	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2615 of SEQ ID NO:1906, b is an integer of 15 to 2629, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1906, and where b is greater than or equal to a + 14.</p>	AI963125, AI609225, AI884581, AW069271, AI953978, AI567519, AA703985, AI858101, AI281477, AA878466, AW084603, AA004204, AI755045, AI753615, AA122291, AW150834, AL038513, AA706823, AI814914, AA127736, N32519, AA706805, AI564735, AI670785, AI754803, AI888126, AI654845, AA452231, AW385337, AI160667, AI755281, AI122842, AI127349, AW088731, AI083555, AA609330, AA058930, AA486379, AW021109, W93848, AA115524, AI090089, AI570898, AI262822, AA903134, AI697486, AI088658, AA121511, AI580763, AL038512, AW439391, AI341677, W52306, AA010309, AW069115, AI127946, AI692736, AA600038, AW068714, AI354707, AI589319, AI371826, AW008422, AI754320, AI346302, AA723122, AA010310, AA599273, AA137194, AA599504, AW069432, AW088383, AI751005, AA725207, AW385359, AI304554, AI457114, AW191921, AW020206,

	AW372817, AI446310, AW074603, AI075140, AW291469, AI214470, N89578, AW069514, AW385351, AI753788, AW372828, AI752198, AI052797, AA099729, N42734, W02000, AW372820, AI160542, AI095555, AI754231, AA070970, AW302579, AA114947, AI357733, AW386363, AI864906, AW340511, AI268892, AW393341, AA505831, AW073493, AI750527, AA305175, AI200515, AI342335, AI751983, AI417127, AA993150, R77205, AA137193, AI935300, AW393329, AI560062, AI077562, N75508, W93869, AI127162, AI582477, AA573183, AA857098, AA442665, AW385366, AW068212, AW393339, AW393324, W87515, AI751004, AI039775, R95826, AA040410, N68613, AI752199, AA150616, AI919268, AW372823, W87487, AW393333, AW088208, N43019, R95777, W30698, AW393343, AI671130, AI094661, R69515, AA330038, AA705256, AA096062, AW393334, W24174, AW393342, AA334999, AA974667, N99050, AW068455, AI147454, H87987, W05395, AI865506, D62061, AA578679, AA329445, AW372121, AW393330, H59312, AA122386, D62992, AA449381, AA330407, AI589497, AA142904, H45011, AI382841, AW385329, AI688861, R86097, H13571, H44959, AI932553, R09536, AA332101, H03527, AW393338, AW235794, T27809, H03445, T49493, AW444479, AA115948, AA853107, AA099728, AA853780, AA194797, AI263967, T31631, AA333851, AA330396, AA342316, AI569315, AA332661, AA852331, AA092962, AI750253, R27794, AA346374, AA332339, AW196741, AI537624, AA040329, AA328122, AA233015, N63241, W57799, AA344504, AA232701, AA092106, H39522, C02028, AA386156, T29615, AA334576, AA304992, AA194648, R09649, R07913, T49492, T31628, AI751984, AA328379, AA334087, T31612, R07858, AA332886, AA329886, AA449254, C00044, AA348035, AA328980, AA361011,

	AA331327, M11718, Y14690, X04758, L02918, AJ224880, M10956, J03051, Y11587, AL050138, AL049466, AF115392, U77594, A65341, AL110296, AF090903, D83032, AF106862, AL133062, AF047716, U49434, E02349, AL137550, AF137367, AF078844, AL117463, AL133014, I89947, X80340, S77771, Z97214, AR038854, S78453, AB025103, AF044323, U78525, AF113019, AL080159, AJ242859, AL050024, E03348, AF100931, E03349, A18777, S36676, AL049382, AL137558, S83440, AL133619, AL110280, E15582, AL137463, I48978, E04233, AL080154, A08913, AL050116, AL137555, AL137480, AJ005690, AL137476, A08907, A08912, AL137256, A08910, S78214, AF067790, I89931, A08909, X99257, AF061981, D16301, AL117435, I49625, AF016628, X82434, A08908, U53505, AL133624, AL080150, S76508, AL080163, AL080124, Z13966, I89934, AL050277, AL050170, E02152, AF169154, AL133640, AL050172, AB007812, U35846, AL133565, A08911, AC002467, AL133665, X79812, I03321, E06743, AL133075, AL049452, AF113699, E01614, E13364, X70685, AF017437, U67958, AL122106, U58996, AL117585, AL023657, AF199027, AL137548, AL133113, AL133568, AF113689, AL117587, AF176651, AL137574, AF058921, I09499, AL117440, U91329, AL050092, AL133010, AR034821, E02221, A03736, AL137292, I68732, X53587, A08916, AL137526, AL133054, AF145233, X66871, X87582, AL137530, AF200464, AL117578, AF199509, AF185576, AL117629, S69510, AF055917, AF159615, A18788, AF162270, A15345, I79595, AF002985, AF126247, AL049300, A65340, U92068, AL133558, AL137459, AF106697, AL133557, E01314, T63108, R27886, H13204, H88165, H88165, N64280, N76100, AA461456, AA594297, N87869, AA091436, AA095583, AI086998, T03859, T24745, AI128830, AI537635

1907	HCRQK59	877411	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1537 of SEQ ID NO:1907, b is an integer of 15 to 1551, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1907, and where b is greater than or equal to a + 14.</p>	<p>AI394016, AI337333, AW008484, AI492226, AA503225, AI832480, AA551754, AW263863, AA782573, AA469071, AI700423, AI380990, AI631409, W95477, AI651800, AA804581, AW016198, AI567909, W05729, AW338263, AA488420, AW134932, AW149688, AI424300, AI569012, AA348345, W95367, N74885, Z20694, AI569356, AW083000, AA745423, AW193135, T24482, AI355870, R65920, AW054656, A75401</p>
1908	HWLXK44	877437	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 454 of SEQ ID NO:1908, b is an integer of 15 to 468, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1908, and where b is greater than or equal to a + 14.</p>	<p>H53943, R09272, W52643, AW001226, AI827422, AI086839, AI752330, AI752329, H53944, AL136295, U94831</p>
1909	HE8DZ94	877630	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1785 of SEQ ID NO:1909, b is an integer of 15 to 1799, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1909, and where b is greater than or equal to a + 14.</p>	<p>AI684587, AA610052, AI189791, AI186697, AI751250, AI310126, AI188971, AA906201, AA019739, AW264561, AW009062, AI361312, AA887119, AA971980, AI580662, AA088862, AI261311, AA575958, AA018414, AI268976, AA904689, AI784506, AI654089, AA838000, AI800634, AA018103, AA833673, AA809439, AA970480, AI419770, AW189948, AI806808, N40196, AA886637, H38658, AA059058, AA809455, AA532665, AI538082, AA887381, T50287, AI083552, T47520, AA054140, H86494, AA469072, AI933491, AA935534, AA634291, N58823, AI799084, H86061, R24685,</p>

1910	HTELO87	877881	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1253 of SEQ ID NO:1910, b is an integer of 15 to 1267, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1910, and where b is greater than or equal to a + 14.</p>	<p>C21487, AW440198, AA482137, AI971218, H66403, AA570041, AA555150, AA494063, H78365, AA935511, AI807280, Z21231, AA019783, H78462, AA632718, AI338489, Z19788, W01156, AA016261, N28787, AF151877, AF113127, AL117550, AF161526, A74434</p> <p>AA115605, AI589156, AA115471, AI359615, AA115213, AI817096, N50090, AW118065, AI024233, AA423826, AA610042, AI672797, AA307285, AI800760, AA989046, AA975271, W60559, AA463414, AW162429, N50523, AA034218, AA805237, AA115129, AA721969, AA496544, N52970, AA419084, AA708005, AI741973, AI204382, AA476516, R70914, R70913, AA043558, AA320866, AA476416, AA033534, AA781036, AI627278, AA903019, AA347354, AA035548, D25909, AA043557, AI419107, AI080319, H97516, C21455, N50579, AW299563, AA310893, AA307286, AI761872, AA035038, AA905739, AA746181, AI521292, AI554821, AI433157, AI889189, AI866469, AI815232, AW086285, AI927233, AI366900, AI539707, AI355779, AI590043, AI440239, AI537677, AI494201, AI500659, AI539800, AI866465, AI801325, AI500523, AI538850, AI702065, AI582932, AI923989, AI872423, AI284517, AI500706, AI491776, AI445237, AW151138, AI521560, AI500662, AW172723, AI284509, AI440263, AI538885, AI889168, AI866573, AI828574, AI633493, AI434256, AI434242, AI805769, AI888661, AI648454, AI284513, AI888118, AI859991, AI436429, AI887775, AI889147, AI581033, AI371228, AI567702, AI440252, AI866786, AI610557, AI860003, AI242736, AI887499, AI539781, AI500714, AI559957, AI491710, AI521571, AI582912, AI623736, AW089557, AW151974, AW151979, AI612913, AI885949, AI371265, AL045500, AI469775,</p>
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1911	HWLQL72	878199	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 540 of SEQ ID NO:1911, b is an integer of 15 to 554, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1911, and where b is greater than or equal to a + 14.</p>	<p>AL039390, AI567953, AI446495, AI863014, AI671642, AI890907, AI866581, AI889148, AI285439, AI431307, AI539771, AI804505, AI554827, AI866461, AI815150, AI273179, AI371251, AI866510, AI285419, AI923046, AL047422, AW151136, AI866691, AI924051, AA715307, AI432644, AA809974, AI828583, AI569439, AI872315, AI624545, AL042365, AA641818, AI648567, AL049776, Z99943, U50823, L13297, U01145, Y17793, AL122110, U00763, AF097996, AL133080, AL133607, AL122049, AF113694, AL133053, U31501, AL133049, AF093119, X62840, AL133655, AL050116, I17767, AL133015, AL133608, AL133072, AL137267, U30290, AL122101, E13998, AF002985, AL133081, AL133077, AL137283, A30543, I19505, U96138, AL122103, E07361, S71381, E12888, AL133084, AL133070, AF132676, AL049423, AF061836, M30514, Y07915, AR034821, AR034830, I96214</p>
			<p>W95797, AI815614, AA159571, AA001628, N47368, AI143890, AA485201, H27837, AA385921, T96878, AA382884, AA384878, W95754, H18148</p>	
1912	HBJJUL05	878207	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a</p>	<p>AI802901, AI889514, AA464368, AW026514, AI278645, AA315349, AA777364, AI741517, AW139143, N93194, AA632076, AA700910, AA456473, AI889524, AI160031, AA464386, AA464702, AI089651, AI057409, AI271327, AI921322,</p>

1913	HE2HC14	878238	<p>is any integer between 1 to 1704 of SEQ ID NO:1912, b is an integer of 15 to 1718, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1912, and where b is greater than or equal to a + 14.</p>	AA417376, AI689262, AA081418, AI611368, R83304, N99927, AW272715, AI281824, AA680361, AI278647, AW022859, AW268970, AI273221, AW264836, AW022729, AI184566, AA416981, AW020287, R52791, AI247775, AI924151, AI669435, AI093813, AI206016, AA888936, AW027977, AI269409, AW027941, AW250197, AI334129, AI474405, N34475, AA351606, AA435915, AI270365, AW022849, AA650241, AA629813, AA594133, AI358262, AA972239, N63595, AI538989, AI075918, AI431608, AI094322, AI868462, AA454579, AW379850, AW005549, AI088724, AI240714, AI421046, AI493454, H81794, AI348002, AI933462, AI702637, AA730245, AI982825, T06003, AI338374, AA173157, AI767408, AA417194, AA493371, AI688358, AW167434, AI688521, AI961941, AW269290, AA351839, AA024843, AA319841, AA675922, N57835, AA464275, AA491623, AI263242, AA812261, AI566133, AA527515, AA478734, AI700650, AA527428, AI393134, AI359837, AI591187, AA352936, AA364692, AW167540, F09704, AI432014, AI241621, AI768245, AA380399, AI739437, R95684, AI248967, T66281, AA516011, AI919046, T98208, AA582002, AA747622, AI523723, AI348587, AI904291, R83399, AI784373, H29486, R94431, AA256650, N42879, AI032060, AI887086, AA235236, T98967, AI056747, AA306667, AA768239, W38780, T98209, AA642247, AI554380, AW302197, AI816825, AI766194, AW207784, AW376043, C02058, AI033452, AC000378, AB019038, Z66003, Z66002, Z65575, AI127452, AW351965, AW351958, AW178075, AW351966, AW351967, AW351961, AW177978, AI659805, AW351960, AA772145, AI336994, AW178080, AI332356, AW340996, AW177836, AW178082, AW178086, AI703194, AW178079, AW177841, AA102622, AW136469, AI476336,
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1961 of</p>	

<p>SEQ ID NO:1913, b is an integer of 15 to 1975, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1913, and where b is greater than or equal to a + 14.</p>	<p>AI636042, AW375181, AW365198, AI813938, AI769135, AI074596, AA418593, AW178083, AI498407, AI654773, AW351962, AW177876, AI366827, AW178077, AW020441, AA806382, AW178182, AW178076, AW178081, AW177879, AW365184, AW366023, AW365168, AW375184, AA418655, AW177839, AW178084, AI468009, AI433820, AI692309, AW082896, AI927777, AW365192, AW387262, AI143953, AW365194, AA421501, AI271676, AA425855, AA854439, AW082902, AW177842, AW128928, AI392856, AW365398, AA421470, AW365185, AA535678, AI400413, AW365353, AW387278, AA680114, AI076707, AI285336, AW365392, AI581008, AW375185, AA938196, AI801859, AW089786, AI382040, AW365381, AW365201, AW375183, AI243492, AA973630, AI120271, AA649053, AW365405, AI698558, AA934487, AW366025, R98908, AI473267, H70023, AA976681, AW365408, AA806629, AW375120, AI536915, AW178078, AW365180, AW365183, AW003830, AW178085, AA400106, AA532939, H59432, AA719249, W85961, AW387263, H58724, AI301165, AW294007, AA463549, AA527345, AW262369, AI830518, AA832369, AI383837, AI216813, AA280430, AW177877, AW365189, AW177079, AI288375, AW375133, AA515868, AW375160, AW243710, AW375442, R98681, AA932395, AW169226, AA188895, AI335817, AW365411, AW365146, AW365417, AW382189, AW365202, AW382124, W24191, AI635752, AI868465, AA280348, AW365182, R97677, AW365412, H56644, W72745, AW177846, AW365404, AW365402, AW365359, AA424055, AW177974, AW365164, N91771, AW365193, AW351813, W85877, D20462, AW365388, AW375179, AW375130, R84876, AW365362, C01884, AW351560, AW375422, AW365364, AW366058, AA936703, AC008040</p>
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1914	HIDTHI51	878274	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 494 of SEQ ID NO:1914, b is an integer of 15 to 508, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1914, and where b is greater than or equal to a + 14.</p>	<p>U18012, AA045933, AA128223, N72395, AA058726, AI834324, N86927, AA356189, AW351942, AA349355, W04179, AF203978, U34879, U43607, U43548</p>
1915	HRGDE77	878374	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2871 of SEQ ID NO:1915, b is an integer of 15 to 2885, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1915, and where b is greater than or equal to a + 14.</p>	<p>AL041566, AA477266, AI656936, AI951716, AI096374, AA477267, AI927648, AA292231, AA479878, AA922034, AI718425, AW340634, AA693300, AA443588, AI141913, AI150393, AI262030, AA824471, AA399440, AA427523, AA812642, AA293470, AA723836, AA994091, AA575922, W76034, AI985377, H49237, AW016407, AA143496, AI660111, R20962, AA873844, AA143497, R06788, AA808474, T79352, Z45236, F04128, R01824, AA503842, AI361214, T79783, AI918933, T39691, W72847, AW079858, AA987751, R00061, AA430714, AI424488, F08632, AA293015, H49238, F01790, AI873138, AW235170, AA693978, AW407497, AA548157, R06739, AA343968, AA227223, AA421387, AW082809, AI867963, R01094, AI823640, R42744, AW050670, AA226870, AB033010, AL137675</p>
1916	HHFHR53	878403	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2994 of SEQ ID NO:1916, b is an integer of 15 to 3008, where both a and b</p>	<p>AL048840, AI064902, AW249691, AI872413, AW243294, AL138300, AI590076, AA100757, AW004004, AI923006, AA587051, AA279533, AW183520, AI419833, AW292319, AA214039, AI078293, AI082751, AI015661, AW167064, AA427783, AW117731, AW169146, AA070150, AW088356, AI336423, AI803586, AA100821, AL048839, AW105007, AA332665, AW021472, W93478,</p>

1917	HTPAY82	878433	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:1916, and where b is greater than or equal to a + 14.</p>	AA211303, R51407, AA040271, AI128507, AI824743, AI520729, AA279532, N62195, AA770032, AI991817, W67473, AA309583, AW392599, AA976795, R14643, AA976594, AI216760, AA442972, R53567, AA369897, AI364305, T56013, AW021133, AA016204, R53679, AA620855, H73568, AI521207, AA554353, AA209214, AA369896, AI832743, AA609475, AI536106, W67474, AI672267, AA563648, AI824485, AI561042, AA040252, AI383108, AA579428, AA305720, T91394, T04986, R45624, T86544, R29736, C00010, T29665, T05066, AA887773, AI985106, T85482, AW243484, N76492, AA720874, AA573214, AI125103, AW021569, AA305679, L25798, X66435, AL079334, AL050004, L00334, L00330
1917	HTPAY82	878433	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 544 of SEQ ID NO:1917, b is an integer of 15 to 558, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1917, and where b is greater than or equal to a + 14.</p>	AI078580, AI743235, AA429945, W93646, AA455042, AI128804, AI826623, AA516431, AI989747, AW183193, AI141284, AI989739, AA702011, AA911088, AA989129, AA876539, AA477156, AA305052, W19506, N89912, AI265924, AA644621, W38899, W52820, AI633679, AA987264, AI263261, AI371387, AI349474, AA805723, T90569, N95062, W93906, AI198595, AA946978, AI419292, AI198127, AA778301, AI631831, AI352478, AI693357, AA927461, T97984, AA341602, AA035640, AA356704, AA338760, AA295467, AI933253, AA374253, AL044098, AI206661, AA780176, R02479, AI123118, AA338761, AA234074, T98061, T83106, AA193255, AA479657, AF104628, AI220255, AI857454, AF096895, AF057306, AF135380, AF135381, AF145216
1918	HMUBQ39	878436	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1805 of SEQ ID NO:1918, b is an integer of</p>	AW084650, AA088424, AI697069, AA172042, AA838417, AA172044, AI744623, AI627227, AI630224, AA993207, AI371167, AI949142, AI890821, AA609797, AI018761, AW372890, AI814927, AA625264, AI954856, AA993191, AA614086, H05584, AI961696, R39132, AI632376, AI143462, AW136636, AA722935, AA172197, D20763,

			<p>15 to 1819, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1918, and where b is greater than or equal to a + 14.</p>	AA701379, F06989, AA148617, AW044004, R21296, R44866, AA191290, AA172201, AI970448, AW361154, AI627401, N42449, AI224491, AA635934, R14008, H05119, R18980, T26664, T16725, F07496, T59139, AA372447, AA092086, F31653, Z40099, AW271655, AA993655, R32993, R46141, AI472512, T59062, T26665, Z40560, R32717, AA148756, AA374317, AA585413, AA064920, AI917682, AA625242, R32994, AW362703, AW372891, AW386147, R25109, R25628, R63578, AA828475, R31750, AI468622, AI491710, AI540458, AI814841, AI570152, AW079699, AI499285, AA836253, R40363, AI688854, AI696714, AI954475, AI689096, H03560, AI368579, AI357049, AI560184, AI469505, AI687295, AA767252, AI890654, AI280732, AW083750, AI445877, AA923096, AI341690, AI888575, AI697178, AI765469, AW075921, R30844, AI702494, AI359787, AI417754, AW104141, AI867017, AA742592, AI688959, AA741502, AA765659, AW193231, AI633330, AI679261, AI498288, AI890995, AW235487, AI749231, AA761557, AI589140, AI590785, AI623980, AI590755, AC005216, U56252, AF102578, AF038847, U67810, A85213, AB015752, AF047716, AL137490, AC006314, Z73979, AP000299, AF039907, AL049552
1919	HCEYN60	878560	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 563 of SEQ ID NO:1919, b is an integer of 15 to 577, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1919, and where b is greater</p>	AI828920, AI866163, AI581670, AF108139, AF015770, U94350, T46897, R40801, R49803, R49845, R40801, R78750, R79059, R81613, H13785, H13786, H26105, H49579, H49658, H61321, H61596, H62359, N23682, AA002170, AA039225, AA045879, AA045878, AA053472, AA083358, AA146754, AA171927, AA173260, AA181967, AA186968, AA215430, AA215576, AA494375, AA554350, AA565187, AA582635, AA594327, AA612625, AA878313, AA886926, AA887637, AA908475, AA939096, AI051140, AI083860, AA641276,

1920	HWHGF46	878800	than or equal to $a + 14$.	AA205608, AA284538, AA411196, AA410243, AA411096, AA436335, AA478263, AA478319, AA609270, AA628990, Z19827, AA719345, AA769770, AA776741, AI018379, D19640, AI305530, AI307824, AI344950, AI349732, AI363496, AI368551, AI434470, AI561271, AI498585, AI423077, AI147393, AI167340, AI224833, AI174303, AI187983, AI659839 AA814195, AI457718, AI085388, AI765650, AA633558, AI379449, AI476182, AI419034, AI037888, AI148797, AA028963, AW009541, AW051402, W67841, AA687642, AA934498, AI079438, W67782, AA035136, AI016426, AI304821, AA085457, AI808210, AA098932, AI685969, W39585, AI685970, AI038819, AI219571, AI580447, AA485877, AA487780, W42434, AA594455, AI865081, AI085147, AI202241, AA632996, AA035135, D45612, AA991990, AC006261, AL031985, AL021154, AC006449, AL008718, Z95329, AC004950, AC002349, AL031846, AF146367
1921	HPMSF50	878909	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2101 of SEQ ID NO:1920, b is an integer of 15 to 2115, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1920, and where b is greater than or equal to $a + 14$. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3939 of SEQ ID NO:1921, b is an integer of 15 to 3953, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1921, and where b is greater than or equal to $a + 14$.	AL045860, N58437, AI525782, AI688578, AA007479, AA310929, AA906018, N41678, AW084721, N59420, AA007400, AA234496, AI810048, AI394367, AW273848, AI400139, AI659487, AI168584, AW247506, AW245091, AA232997, AW148684, AA235036, AW242278, AA236538, AA206161, N78027, AA630558, AI128065, N76782, AW297277, AA497021, AA877580, AA931472, AA351722, AA232945, AI208004, AA885392, N71533, H09450, AA554688, AA983994, AI221004, AA235204, H54147, AA460203, AA985683, AI681824, N22166, AA889639, AA668373, H81138, AA678603, R97728, AW291709, AI346634, AA337087, T56721, C14300, AA310347, AA359522, AI032752, AA705700, R68352, R10225, C14263, T40018, H81043, T56722, C14304, R68562, AI369399, R96796, AA333514, AA459932, H57429,

1922	HTWEA6I	878917	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1978 of SEQ ID NO:1922, b is an integer of 15 to 1992, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1922, and where b is greater than or equal to a + 14.</p>	<p>AI758833, AA836349, C14291, AA902529, C14302, C14277, D59495, R10732, N93792, AI032107, AA665646, R12861, AA384438, AA682859, AI904934, AI904935, D80004</p> <p>AI826538, AI267318, AI688542, AI052104, AI376453, AI818589, AW029328, AI678648, AW192514, AI566340, AI972077, AI811155, AI936746, AI089502, AI372947, AI004230, AI354532, AL119666, AI084362, AI027083, AI691080, AA621070, AI744332, AI149953, AI149949, AI150745, AI199180, AI625208, AI003733, W20002, AW074007, AI627187, AW242075, AW130451, AI014764, AI091649, AA041468, W55944, AI445868, AW151070, AI005484, AI092273, AA040575, AI689545, AI524423, AI521587, AA908191, AI689268, AI270577, AI372494, AI619883, AI538583, AW263138, AA040673, AI368864, AW316596, AI539834, AI952557, AA721376, R19495, AA662403, AW085967, T75472, AA808860, N78681, N32970, AA176087, AI125767, AA740389, AI074758, AA300365, AW090571, AA894651, AI372493, AI680268, AI547225, F13229, AA383093, AA814692, AA386145, AA970611, AA302328, AI536066, D31244, Z44196, H20558, T48533, AI350433, AW243606, AI784415, AA063203, D82747, W26208, AA471277, AA903068, AI680414, AL038664, AA664940, AA897635, AI535982, D31438, AI419708, AW275741, AA386197, R62151, AI051237, R62259, W28043, R39290, AI250661, F10830, AI695489, AA343846, R43842, AA334321, AA093703, D56184, AA845417, AA332748, Z40172, D80027, R38429, AI524545, AA095572, W15187, T28780, T27330, F24108, AI611841, AA176086, AW375368, AI521566, AA323934, AW163010, AW292131, AW021288, AA329440, D81428, AA344329, AA039822, AW375337, AW270647, AW149580, F35697, AA148318,</p>
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1923	HILBF77	878931	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 711 of SEQ ID NO:1923, b is an integer of 15 to 725, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1923, and where b is greater than or equal to a + 14.</p>	<p>AA862706, AI802643, AA848160, AI026832, AI523217, AA342697, AI241878, H60591, AI709179, T25879, R12857, AA970902, AA719848, N63253, T69962, T79010, AI676163, T69912, T16724, AA093662, T24661, H20652, AW270806, AA337850, AA349447, AA595861, AA373966, AA355685, N84238, AA199620, AA090164, AI557186, D31885, AE000658, U85195, AF223953, AF172088</p> <p>AW242021, AA352298, AA330358, Z78381, C01470, AL049923</p>
1924	HTEHX05	879009	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2213 of SEQ ID NO:1924, b is an integer of 15 to 2227, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1924, and where b is greater than or equal to a + 14.</p>	<p>AI872206, AI912340, AI758821, AW337178, AW004890, AI572080, AW058001, AA775261, AA831357, AW074361, AI361820, D20022, AI982775, AA581345, AI690445, AI917776, AA825538, AI360561, AW439592, AI798286, AI140796, AI277190, AA100279, AA485257, AA835492, AI522238, AI015234, AI689240, AI469550, AA706811, AI744762, AW265061, AI884872, AW450726, AA122332, T34498, AI811224, AI355770, AI702026, AI471817, AA092467, AI597962, AI624976, AI681670, AA089786, AA654171, AF035606, U58773</p>
1925	HPHAA47	879234	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AI540230, AI453545, AI697681, AW170551, AI346427, AI819403, AI857677, AI348016, AW131500, AI419533, AW027758, AW016071, AI089921, AI347957, AA612573, AI601101,</p>

			<p>the general formula of a-b, where a is any integer between 1 to 3897 of SEQ ID NO:1925, b is an integer of 15 to 3911, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1925, and where b is greater than or equal to a + 14.</p>	<p>AI088798, AI123932, AI348513, AA916423, AI346237, AI697840, AI346773, AI827270, AI763317, AI763320, AA609447, AA024428, AA948406, AW149724, AI435604, AA946618, AI950301, AW149541, R36320, AI923233, AI860454, AI814488, AA232203, H43798, AW374530, F11803, F06514, AW131707, AI285224, AA457235, R88044, AW013905, H23601, N51357, AA568172, Z43390, AA758706, AI927091, Z39461, AA936791, H23640, H43806, AA364902, AI802791, AA864755, T33777, F02788, H42258, F09452, AA583801, T65604, R43369, T65538, H40427, AA336254, W94547, AA416590, R44402, N56604, AW004746, R19614, AA580399, W78003, AA463368, AW293983, AW374487, AA513346, N29649, AA837760, AA024429, AI695172, R17652, AW448962, AA232743, AA973192, AA652557, AA463872, AA327631, AA470625, R49252, AA773793, AA351733, W79462, AA757309, X85664, AA480653, R65673, AA719939, X85665, AI972788, AI972806, AA933622, AA916725, AW006745, AL137343</p>
1926	HHFJJ61	879386	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1027 of SEQ ID NO:1926, b is an integer of 15 to 1041, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1926, and where b is greater than or equal to a + 14.</p>	<p>R93802, AA130402, H07960, AW250644, H85944, R85969, AA095215, AA036855, AA215398, AA308813, AW250378, AA324032, AF161516, AF152097</p>
1927	H2CAA49	879484	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AI279876, AI539769, AA876127, AI963800, AA206425, AI969470, AI951966, AA459503, AA778294, AA639198, AA446426, AI334209, AI150191, AI281280, AW149760, AA446118,</p>

<p>the general formula of a-b, where a is any integer between 1 to 2296 of SEQ ID NO:1927, b is an integer of 15 to 2310, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1927, and where b is greater than or equal to a + 14.</p>	AA459274, AA236997, AI587101, AA946837, AI922323, AI198839, AA568602, AA777025, AW376909, AI127770, AI139373, AI753243, AA789258, N95643, AI754062, AA236574, AI140786, C75603, AA075484, AA251521, AA587266, AW439362, AI121103, AA213367, AA837311, AI187231, AA227539, AI344110, H67810, W95535, AI400951, T65536, AA872668, AI192986, C17463, AI859211, AA470471, T17222, AW192135, AA075621, AA506763, AW139044, AI913866, AA192466, AA165156, AI826398, AA678954, AI271344, AA113939, C05669, AA137249, H17790, F11801, AA164768, C75565, R89384, T16445, T69722, N66040, C18698, H59003, AA503343, AA339152, AI025443, D81644, R78076, H58956, D60375, F06655, H58600, AA514607, H02142, AA164700, AA055768, AA306967, T70379, AI568159, C21496, W95420, H68082, AI572235, AA382754, AA989472, T35523, H02038, T65602, AA236620, AW363691, AA142866, R01641, F09450, AA524392, T85647, Z39669, H17791, H58601, AA382619, T84903, AW303874, AA365866, T97378, AA165228, AA838767, AA165229, R42323, AI025112, AW029182, AA865982, T91320, C00668, T99684, T82109, T39127, AA471242, R16395, T67084, Z21083, T39128, R42337, AW390645, R01549, H77482, R16380, AA937248, AA199583, AA528463, T97267, AW005487, AA586445, AA084485, U90736, AA934719, AA327356, T87388, AI826239, AA137250, AW385433, AW385409, Z20096, AI924498, AA513297, AW080588, AA558986, AI926128, AI581525, AI695291, AW196067, AI783818, AI623264, AI400863, AA526975, AI445127, AI469613, AI933636, AI919084, AA632103, AA581848, AI888732, AI358508, AI469656, AI291994, AI275085, AI249798, AA552670, AA565996, AI040152, AI242802, AA884931, AI378681,

1928	HCRNW08	879595	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 407 of SEQ ID NO:1928, b is an integer of 15 to 421, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1928, and where b is greater than or equal to a + 14.</p>	<p>AI025266, AI434099, AA533047, AW272720, AI801054, AI888914, AI735767, AW304001, AI445913, AI436796, AW190856, AI921153, AI380637, AI888294, AI634717, AI075324, AI815198, AI805627, AI932444, AW073291, AI891014, AA425142, AA622524, H67122, AI916480, AI146786, AA316874, AI678847, AA315049, AI817063, AA573742, AW152548, AW151674, AI610106, AI675865, AW152169, AI675714, AW027843, AI475938, AI685830, AA582017, AI473626, AW381550, AI445130, AI800451, AI800431, AI972701, AI678427, AI801784, AI582452, AI867585, AI972499, AI720013, AI278406, AI277266, AI082505, AW191880, AI537173, AI473553, AI925030, AI559391, AI471336, AF053641, U33286, AF038452, AF053642, AF053650, AF053651, AF038451, AF053640, AF007791, AF088867, AA570120</p>
1929	HNTD129	879661	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1269 of</p>	<p>AA555115, AW083142, AW383992, AI819977, AI818981, AW302146, AI357211, AA970333, AA565308, AW391496, AA809752, AA043134, C18608, AA548230, AA565317, AI352620, AA554155, AA279358, AW392424, AA043611, AI433904, AA767874, AA370804, F33509, AW370978, AI500136,</p>

1930	HCRNM29	879886	<p>SEQ ID NO:1929, b is an integer of 15 to 1283, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1929, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 748 of SEQ ID NO:1930, b is an integer of 15 to 762, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1930, and where b is greater than or equal to a + 14.</p>	<p>AA360902, AA279306, AA370803, AC004677, AL078630</p> <p>AA040621, R64534, AA811265, AI582161, AA132065, AI222332, AA040620, AW001618, N40203, AI796277</p>
1931	HTPAM76	880071	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1619 of SEQ ID NO:1931, b is an integer of 15 to 1633, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1931, and where b is greater than or equal to a + 14.</p>	<p>AW387764, AW387814, AW387802, AW387787, AW387847, AI888586, AW387804, AA156240, AA156243, AA115637, AW388637, AW387768, AW073692, AW387860, AI828610, AA447697, AW078652, AA156747, AW387867, AA115638, AW387851, AA147510, AW387845, AA147381, AI671236, AA627367, AI302358, AW387765, AI589344, AA126967, AW194339, AA552339, AW274844, AA115437, AA631614, AA482223, AI336522, AI610638, AA464766, AA127119, AA148915, AI801445, AI888444, AA486631, AA481927, AI926413, AW058286, AA468787, AA156919, AI888332, AA115436, AW387859, AA129137, AA911832, AA480064, AW387887, AI446210, AA129136, AI935846, T93584, AW338675, AA486537, AA447849, AA373191, AI739001, AI536744, AA300698, AI926870, T79051, AW378720, T70156, AW387878, AW150592, AI805203, AI678275,</p>

1932	HCHOB95	880074	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1112 of SEQ ID NO:1932, b is an integer of 15 to 1126, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1932, and where b is greater than or equal to a + 14.</p>	AA147111, AA148916, AW361440, AA482318, AI224997, AW361449, T92156, AA295139, AI932801, D45563, AI933650, AW351860, AI361188, AA588527, AW388036, AW382525, AW382549, AA078254, AA077989, AA078672, AA078071, H25470, N43950, H85417, AI990093, H82389, AI262918, N27467, H83634, N27592, AA653768, W20391, AA481039, AC007688, AC004467, M60322, X52046, AL049610, AL008706, Z83745, AF084363, AF109905, AC003061, U56708, AL050318, M96253, AF035927, X92380, U59932, AF010237, Y17262, Y17265, U79975, U70436, AC002073, AF120983, AC005855, U69273 AA919098, AI829915, AI373763, AI769890, AI678073, AI186242, AI040323, AI096782, AW182824, AA877237, AI184171, AA843884, AA496249, AI684689, AA402540, W72754, AA099242, AA461621, AI688056, AA469089, AA476703, AA044210, AI312919, AA430750, AW340236, AI129433, AI332742, AI088802, AI203956, AA577035, AI375761, AI335585, AA862361, AA044080, AI658509, AA433943, AA991263, AA461447, AI658499, AI027869, AI222302, AI376235, AA496250, AI271959, N40335, AI806274, AA449309, AI808707, AA933843, AI184973, AA029128, AA287518, AI445857, AA316127, AI300822, N34296, AA206029, AI275858, AA133156, AI086991, AA973014, AA494516, AI146496, AI351577, AA524704, AA972426, W49681, AA143280, AA156594, AA989508, AA744580, AW296210, N27520, AA148505, AA523848, N50728, AA150804, W77953, AA099144, W49680, AA770602, N91132, N62734, R77333, W20508, AA150700, N50625, AA442714, AA910801, AA917918, AI027396, AI218157, AA927254, AI240835, AA804816, AA143389, AA321494, AA639009, AI971188, AA373176, N55054, AA604424, AA860473, AI915977, AA665452,
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1933	HLSAA96	880418	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1783 of SEQ ID NO:1933, b is an integer of 15 to 1797, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1933, and where b is greater than or equal to a + 14.</p>	<p>AI783651, AA953781, AA291501, AA668861, AA029999, AA649486, AA652093, AW132021, AA662005, AA364232, AI654194, N55669, AA883709, AA143334, AA372265, AA026564, N78458, AI472423, AA026472, AA313840, N55383, AF112214, D17244, D17071, AA706862</p> <p>AA429586, AW444874, AI920970, AA604806, AA431746, AA651708, AA847822, AA746501, AI051249, AI005487, AI368709, AI417856, AA009824, H06206, AW150601, H08319, AA830175, AA809393, AA765426, AW337780, AI435979, AA421703, AA508643, AA282694, H06207, T78170, R44287, R59778, AA768684, AI193720, AW235814, AA993048, R61320, T09292, AA503026, AA301325, AW084853, H08221, T84812, T78009, AA340198, AA009714, R23537, AI933451, AA649008, AA322332, AC004890</p>
1934	HBBMA61	880578	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 323 of SEQ ID NO:1934, b is an integer of 15 to 337, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1934, and where b is greater than or equal to a + 14.</p>	<p>AA934705, AI370920, AI744886, W86237, AA609163, AI082256, AI140436, N53361, AA968467, AI216727, N62199, AI143325, AI015198, AW236133, AA732867, AW341974, AI591092, AI141509, AA002163, N36129, R45071, R07479, Z38172, AA059224, T33713, AI469204, D11576, D11575, Z78385, N64142, T31044, AW243169, AA844013, AA417247, AL119457, AW392670, AL119324, AL119443, U46351, AL119497, U46350, AL119483, AL119319, U46347, AL119399, AL119484, AL119391, AL119418, Z99396, AL134531, AW372827, AW384394, AW363220, AL134533, AL119363, AL119355, U46349, AL119522, U46341, AL119439, AL119444, AL134538, AL119341, AL037205, AL119401, U46346, AL119335, AL119396, AL119496, AL134920, U46345, AF090190, AB026436, AR060234, AR066494, AR054110, A81671, AR069079</p>
1935	HE8QG48	880649	<p>Preferably excluded from the present invention are one or more</p>	<p>AA984117, AW163623, AA311680, AA418057, AI144311, AL120308, AA056148, AA187561,</p>

			<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1316 of SEQ ID NO:1935, b is an integer of 15 to 1330, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1935, and where b is greater than or equal to a + 14.</p>	<p>AF072813, W01018, AA992009, AA325639, W19986, AA776635, T30663, T33734, AI878939, AA256403, D54700, AA405294, AA134519, Z43583, AA227076, F06381, AW204252, AA430244, AA938909, H30186, D58629, R52851, N98255, AA161199, AA100159, AA114264, H43926, R22746, R34517, AA233577, AA081447, AA324916, AW138505, AA157365, AA324268, H84964, AA019377, AA232373, H42692, W28863, N83234, AA233594, R17978, W81009, W99386, T34516, T35956, AA214355, AA324917, N42109, AA078753, AA010322, T32868, AW138540, AA094192, T32010, T31224, Z39649, T87432, R22276, AA359082, H46389, R99404, T10889, H39131, R16493, AA227062, AA984677, T05775, AI755053, AA362885, AA354497, AA918044, T34825, AA417901, AA134510, AA643681, AA579642, T34772, AI147468, AI336174, AW374188, H19354, AA357382, N55823, AA482456, AW273035, AA161200, AI911850, AW363734, AA430035, AA663961, AA707053, AA565772, AI276668, AA575906, AW337856, AA033587, AA256297, AI308794, AA587048, AI354787, R99312, AA626391, AF119297, AF059524, AR028523, AF059529, AF059525, AF059527, AF059526, U25265, AF059528</p>
1936	HHENW13	880694	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 664 of SEQ ID NO:1936, b is an integer of 15 to 678, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1936, and where b is greater than or equal to a + 14.</p>	<p>AI937291, AI991002, AW087339, AA464410, W37647, AI342395, AA237069, AA581972, AA594539, AW204762, AW276040, AI125339, AA167314, AI367075, AI803380, AA313202, AI264016, AA236870, AW167731, AI083960, AI991293, AI038896, AW205414, AI460022, AA694199, AI610383, AI707649, AI277698, R53610, AA305224, AW079550, AA430117, AA577381, AI074864, N23143, AA860618, AI801446, AA134966, AA724229, W32042, AI151318, W16866, R50528, R52524, AA135047, AA255556, AI189581, N32722, AA455580, AI244226, AL040668, W37383, AA844913, W93357, R50622,</p>

1937	HE8SB64	880747	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2414 of SEQ ID NO:1937, b is an integer of 15 to 2428, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1937, and where b is greater than or equal to a + 14.</p>	<p>N79251, AW271218, AA908394, AI214414, R51941, W31353, AI669222, T32309, AI572502, T34020, AA456077, T30416, AA477701, AA477700, AA989005, N22935, W93445, AA026749, AA166984, T08224, AA883332, AA033670, AA255572, W03768, W31880, AB001740, AB012865, AB012727</p> <p>AI378788, AW070902, AI435602, AW138866, AA147037, AW383889, AI417256, AI420312, AW383890, AI565996, AI499115, AW383902, N21309, AA147128, AI767271, AA885289, AI750960, AI276772, AW102917, N46066, AI290500, H99543, AI302412, AI246663, AL046164, AI242761, N31244, AA233072, AA225024, H84766, H80004, H99544, M91216, H80005, H85099, AA226631, AI436734, AA460989, D29810</p>
1938	HKAEN78	880927	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 908 of SEQ ID NO:1938, b is an integer of 15 to 922, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1938, and where b is greater than or equal to a + 14.</p>	<p>AA306924, T73855, T83294, T85637</p>
1939	HOSML44	880994	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 742 of</p>	<p>AA402002, AA522719, AA905625, AI091612, AI418276, AI560743, AW130435, AI992293, AI800639, AI204546, AA858118, AA813011, AI291876, AI703226, AW051814, AA846821, W19987, AI362691, AI356940, AI149942, AW008254, N55455, T79403, AI221349, AA975506, W96084, AW020847,</p>

1940	HTEEZ62	881052	<p>SEQ ID NO:1939, b is an integer of 15 to 756, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1939, and where b is greater than or equal to a + 14.</p>	<p>AI240036, AI560812, AI300180, AI089271, H54573, AA505078, AA701943, AA232733, T90553, R94479, H38643, AW026456, AA768615, AA854918, T86974, W96085, R08289, R94069, H60026, AI685154, AA970179, AA885640, AW261910, AI283256, AW028863, AA883234, N80142, D52425, AA865830, N22716, AA906638, AA995348, AA282083, H95085, AA765503, AI240974, AA738193, AI207741, AA443008, N35116, H54683, AW128861, N23206, AA364712, AA402136, H96792, AI906874, AI025840, AI346239, D59957, H24210, H95663, N20084, H38653, N29785, H94256, AA063258, AI359626, H96607, N90414, T56966, R20754, AA384679, AI027068, AI370536, AI520954, T78586, R20753, D60276, AI362623, D80608, R54942, AI962075, Z28499, H53597, H18631, H91182, H48906, AA427748, AA301182, AI985444, AA972097, AA894582, AA609747, AI804799, D59884, AA492083, H54445, H67369, T27025, H96239, N79026, AA761468, AA972438, AA970691, AA235389, AA236543, AA815412, AA427749, F10605, H73921, AI923477, H61736, R89812, AI205301, AA247535, H69003, C01267, N56269, AI371632, AI345661, AA203698, AI252251, H96773, AI609846, AI349670, AA319076, N83178, AB018288</p>
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1870 of SEQ ID NO:1940, b is an integer of 15 to 1884, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1940, and where b is greater</p>	<p>AI621215, AI950251, AI564193, AA308190, AW271945, AI560075, AI581089, AI561182, AA603342, AL135260, AW338106, AA505767, AA888065, AI625041, AI909320, AI357213, AA962704, AI911938, H29506, AA353956, AI928495, AA211037, AA581961, AI750915, AA516054, AI750267, AA249644, AA211203, AI493165, AW389552, AA104012, AI905441, AI887429, AI498683, AI453000, AW362831, AA622090, AA182761, AI739109, AA182641, Z42725, AA638984, AW389580, T48739, D19877, AA486796, AI697765,</p>

1941	HOAAH52	881074	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2717 of SEQ ID NO:1941, b is an integer of 15 to 2731, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1941, and where b is greater than or equal to $a + 14$.</p>	<p>AI300924, AI873826, N41871, AB020657, AF161553, AJ012449, AL078644, AR018872, AL137640</p> <p>AI638708, AW370588, AA604391, AI638200, AL046090, AI052244, AW055067, AW055206, AA224549, AW375847, AI679109, AL042378, AI621228, AW055056, AI633697, AW131512, AI858264, AI652500, AA418385, AW007559, AI347910, AA633193, AI417517, AA418455, AL039518, AI379655, AI735776, AI580118, AI611056, AI767569, AI332364, AW006925, AA431974, AI566498, AA458620, AI333573, R93775, AA633310, AI804397, AW190968, AI304495, AW025852, AI077447, AI278898, AA854076, AA400042, AI081935, H48411, AI061256, AI346015, AI042287, AI200205, AI298915, AI150973, AI400748, AA705014, AI921341, AI206630, AA258351, AI493294, AA418302, W80672, AI378534, AI367993, W80671, AI093517, AI445930, AI307183, AA467763, AA418344, AA401498, AI267890, AI953454, AI271612, N72284, AA937447, AA469431, AI361498, AI208143, AA725419, AA296397, AA507583, AA150850, AI207267, AA865832, H18576, AI056172, W60546, H13134, AI754190, AW338131, AA227538, AI569024, R69127, AA911897, AI028185, N73581, R80599, N91387, H63197, AA232897, AI640853, AA150542, Z43515, AI358148, AA921728, N67115, AA132871, AI288107, AA400712, AA742907, R80307, AI290519, AI952567, R11774, R68082, H60801, H60800, R69246, T67909, T64951, AI868438, T32394, AA936201, AI537951, AW235108, AA232896, N70399, AA342399, T69432, H82789, AA360349, AI263563, H63112, AA937988, R80600, AI580686, AA857394, AI678572, H18469, W04986, AA321926, AA610546, H57599, R80203, R91273, H57600, T68057, H82690, N75387, AA852406, AL039517, T52512, AL043057, R93722, N76405,</p>
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1942	HSDXB50	881104	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 735 of SEQ ID NO:1942, b is an integer of 15 to 749, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1942, and where b is greater than or equal to a + 14.</p>	<p>AI537427, AA400660, H82428, Z40015, H18502, AL044808, F04916, R98833, AI474154, AI478281, AI934138, T96021, AA133024, Z43958, AI679684, T54446, AA371002, AL045017, R68119, T16415, AW271181, AA403235, AA676809, T70487, AA626926, R37695, F02870, H51082, R97530, AW389296, AA247471, AI932299, AW376391, Z44495, AW371130, R82536, AI933296, AL044806, AL043245, AI672519, AI133627, D87438</p> <p>AI816760, AI346903, AI189171, AI860301, AA284405, AI340328, AA485290, AW028742, AW073309, AI539128, AI749857, AA910895, N77735, AI805446, AI422690, AA868655, AA046578, AI038920, T32229, AI936194, AA742438, AW001568, AA657742, AW170086, W25066, AA296692, AI077505, AI375014, T95167, AI126547, W16677, AI370853, AI348244, N36073, N26915, AI346077, AI748952, T63086, AI432379, AA127847, AW073849, W01205, AI082289, W31500, N74204, AI753574, AI093341, AI278762, T82102, AI246120, AI735203, AW059835, AA877544, AA706829, AI129303, AI361287, AW249798, AA594759, AA524456, AA542925, AI240209, AA126112, AA934763, AI342601, AI052791, AI857321, AI128632, AI340141, AW118892, N25202, AA814658, AI041906, D11489, AA485295, AW002059, AI370689, AA553675, AA729483, W40151, AA482356, AA903651, AA994633, AI609301, AI459183, AA195893, AW088630, AI561215, AI800091, AW248136, AL050318, AF112213, S83364</p> <p>AA742438, AI346903, AW170086, AI816760, AI189171, AI432379, AI860301, AI340328, AW028742, AW073309, AI422690, AA161296, AI126547, AI749857, N74204, AA910895, AI129303, AI038920, AI246120, AI936194, AI077505, AW249798, AA877544, AI735203, AA926687,</p>
1943	HFKMJ24	881105	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1208 of</p>	

		SEQ ID NO:1943, b is an integer of 15 to 1222, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1943, and where b is greater than or equal to a + 14.	AA868655, AA542925, AI375014, AA934763, AI128632, AI340141, AW118892, N92840, AI240209, AI348244, AA706829, N25202, AI346077, AI342321, AI748952, AI857321, AW002059, AA553675, AI052791, AA127847, AA814658, AI041906, AA983612, AI609301, AA994633, AW006650, AI400295, AA729483, AI459183, AA903651, AI800091, AI561215, H09610, AW088630, AI683272, AI753574, AI719306, AI359224, AI278762, T32229, AI819003, AI093341, D11489, AI342601, AW300745, AI374975, AI346938, AI183409, AI423782, AA126006, AA612604, AA161217, AA846503, AI284860, AI275160, N80744, H06158, AA844576, W16677, AI310420, AI539128, AA996156, AA046578, AA737921, AI985064, W04601, N58366, AI827968, AA719050, N26915, AI091923, AI262701, AA524456, AI674584, AA873274, AI698929, AA485290, AA292533, R99586, AI079471, AA806662, AI361287, T81787, AI370853, W31500, AW193899, AI082289, AI805446, AA583430, T58149, H17502, F30305, AA594759, W25066, AW248136, AA195893, N77735, T95072, F30309, AA482356, AA657742, AA284405, AW059835, AW103745, T95167, R35655, T82102, AI370689, AA485295, T23459, AW366963, AA564661, T63086, W40151, AA484058, AW001568, AA642325, AA126112, AA296692, W01205, AA305476, N36073, AA192315, AA911901, N79525, AI784438, AW073849, AA913441, AA534551, T24804, AI074360, AW193751, H90230, AF112213, AL050318, S83364, AA689442
1944	HEOQC11	881219	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2772 of SEQ ID NO:1944, b is an integer of

1945	HWMBI22	881221	15 to 2786, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1944, and where b is greater than or equal to a + 14.	AA613822, N64732, AA405775, AA196964, AA367635, AA373433, W88918, AA504065, AA652295, N91745, T79620, AA996002, F25128, AI364464, AA515314, AA394253, AA078918, AI909748, AA455284, N80334, AL044772, AA377702, AA742682, AI583136, AI907986, AI909746, AA146721, T79705, AI798856, AW177744, AA037697, H55648, AA767252, AA810554, AA814521, AI675619, AI872260, AW370721, R32993, D78805, D78848, AW078800, AW082532, AW020164, AI245304, AI688854, AI492648, AL096741, AC004882, AC005529, Z82171
			Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1469 of SEQ ID NO:1945, b is an integer of 15 to 1483, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1945, and where b is greater than or equal to a + 14.	AI800907, AI949684, AI052333, AW131568, AA732570, AA769120, AI743959, AI436302, AW082175, AW273742, AI677956, AA037263, AA885367, AA761521, AI936106, AI433128, AI292313, AI458263, AI687626, AI378687, AI187910, AI289598, AI378924, AI224510, AI808484, AA890001, AI363454, AW340276, AI077398, AI168640, W89211, W88447, AI566016, AL043030, AA836573, AA768422, AA634503, AI141297, AI539216, AA918633, AI350946, AA825685, AA515491, AA994089, AA609078, AA761310, AI628981, AI206686, AW105192, AA776321, AA676705, AI676082, AA363995, D62240, AI094091, AI300249, AI400742, T98450, AI809452, N75907, U66469, U66471
1946	HETDL42	882330	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1573 of SEQ ID NO:1946, b is an integer of 15 to 1587, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	AI344189, AI693945, N91690, AI457192, AW150901, AI798181, AA503831, AI458569, W86357, W86242, N92074, T79381, W86600, AI915320, W90710, R94236, AI282976, R94333, AA470366, T55160, H47818, T79811, W01906, N71011, AI702229, T54994, AA336878, N68860, AI613011, AI733775, T61655, AA120932, AA579769, H24026, AW170681, AI611475, AI243696, AI523317, T90991, AW148344, AA345280, AI908519, AI051595, AA885499, W80464, AA917596, AI380135, N29558, AI867394, AA250763,

<p>NO:1946, and where b is greater than or equal to a + 14.</p>	<p>AI284328, AI803101, AW440273, AA603334, AW148392, AA453747, H80554, AA453828, AA528253, W80573, AI254217, AW183037, AI419419, AI423034, AI305512, H65206, AA989137, AI559284, AI659077, AI935032, AW304485, AI611561, AA483217, AW440223, AI073889, T57089, AL046966, AI144070, AA962018, AA112330, AA630098, AI419982, AA954260, W93927, AW173728, R28013, AA146651, AI583416, AA668673, AA191610, F34079, AA703680, AA568394, AI053711, AW270496, AA069314, AI357477, AL041838, W02028, AA706521, AA664331, H89224, AW085628, AI207861, AI253208, AI744801, AW014689, AI769492, AI251385, AW271017, AI971131, AI053588, F34082, AI493025, AI252712, AA931216, AI991553, AI053773, AI311753, AI174685, T92433, N53462, AI805022, AA679798, AI252858, AI053963, AW086339, AA888155, AL135273, AI792443, AA083383, W92523, AI400721, AA504865, AW262442, AA789229, AI250275, AA011377, AI251700, AI254684, AI244896, AW134612, AW052205, AC011456, AC004605, AF050157, AL109654, AC005919, AC004062, U52112, AF030001, AC006289, AL132774, AL049636, AC006115, AC003949, AP000518, AL023584, AJ133269, AL078630, AL035663, AF054504, AC006239, AP000338, AL031056, AC004914, AP000216, AC002467, AC005060, AC007688, AC004638, AF130342, AF084363, AF107258, AC003976, AC004551, AC002072, AC005619, AP000080, X79283, AF126403, AC003061, AC005972, AF095725, AC005921, AF052041, AL049780, AC004051, AC016026, AC005304, AF109905, AC007707, AF111103, AC005580, AL031864, AC006039, AC005740, AL022401, AC003107, AC006012, AC003664, AC006371, AC005587, AL031737, AF001549, AP000014, U85195, AC002470,</p>
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	AC006120, AC005743, AE000658, AC004807, AL034406, AL132994, X06328, AL121754, Z85987, AC004888, AC003971, Z97987, AF091512, X07200, AC006387, AC004126, AJ006996, AC006525, AL033533, AC007528, AC003684, AC006328, AJ003147, AP000208, AP000130, X15051, AC005599, AC006112, AC006333, AP000247, AL023653, U62317, X15052, AL022333, AC002543, AC004934, AF139987, AL096816, AC004029, AC005855, U82668, AP000952, AF229844, Z82203, AP000039, AC016025, U66059, AC004032, AF125314, AC000116, AC003694, AC005172, AC005277, AC011331, AC006370, Z86062, AP000104, AC005772, AC004033, AC005878, AL033518, AL009047, AC007277, AL031010, AL024509, AC006285, AC005701, AC008080, AF131205, AL023513, Z99916, AC007425, AL121657, AC002080, AC000115, AC009069, AL031655, AC000105, AC005881, AF130248, AC006368, AL080272, Z82244, AL031228, AC009396, AC007115, AC011013, AC005386, AC007899, AP000961, AF109719, AF107256, AC006445, AC002331, AL049692, AC007993, AF064858, AP000081, AC002109, AL049866, AC006945, AC005184, AC006013, AC004125, AC007314, AC005303, AC002528, AL133448, AC007359, AC004859, AC007878, AC005189, AL008721, AL035458, AC005938, AL031776, AC004466, AF196972, AC005752, AL049838, AP000402, AL109827, Z98748, AL109627, AC004910, Z82201, AC008175, AL034412, AC005960, AC005553, AC004848, AL049631, AP000697, AC004217, AC008984, AC006042, AC006989, AF212831, Z97054, AF027865, AC006382, AC008033, AC006966, AC007344, AF060568, AF044743, Z97353, AF130357, AL050307, AF107257, AC006398, AC005216, AL132641, AC002368, U91323, AB010266, AL023582, AL034549, AC007917,

1947	HMEKW4 4	882715	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1993 of SEQ ID NO:1947, b is an integer of 15 to 2007, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1947, and where b is greater than or equal to a + 14.</p>	<p>AL049779, AP000313, AC009802, AC004467, AF110520, Z47556, AC007542, AC002487, AP000194, AP001116, AL136363, AC004967, AL035684, AF034569</p> <p>AA553612, AA813301, Z36965, D61366, AI216671, Z21245, AW152524, AI339525, AA483108, AI114701, AI720301, AI375684, AI066646, AI755202, AA584876, AA057530, AI341571, AW130427, AA584862, AW068996, AA569586, AW069783, AA679937, Z86040, AC007385, AL031230, AC009247, AB020874, AL049546, AL079304, AL021397, AL035078, AC004890, AC004990, AC007103, AC003009, AC004804, AL024498, AC004263, AC005844, AL034375, AC005723, U91326, AC005409, AL049539, AC006241, AC009509, AC007842, AC006430, AL031296, AC005086, AC010205, AL0233578, AC007528, AC006377, AC005081, AC004070, U62293, AL021395, AC005368, AC005155, Z82214, AL133243, Z68276, AC006509, AC005229, AL133245, AC004087, AL031684, AP000141, AC004821, AP000500, AC006478, Z93017, AC008372, AC004859, AC004125, AC006229, AC006525, Z78022, AL022576, AC004796, AL035249, AC005181, AC004028, AP001137, Z85986, AF045448, D87675, AL049696, AF001549, AC005670, U91318, AC005483, AR036572, U91328, AL049713, AC005180</p> <p>AI563939, AW250591, AA280100, AA148046, AI167949, AI160019, AA886389, AI679948, AI523219, AA147993, W94919, AI679440, AA307127, AA480164, N26434, R54543, AA064644, H08047, AI520745, H99329, R60593, R60646, AA064686, AA283759, AA280033, R54445, AA303581, H07940, W91972, H69540, AI250356, AA283994, R11288, AI085856, N70908, R11229, AI540673, AA809976, AA909579, AA775556</p>
1948	HCEDM42	882729	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1236 of SEQ ID NO:1948, b is an integer of 15 to 1250, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1948, and where b is greater</p>	

1949	HCRNZ31	882762	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 2140 of SEQ ID NO:1949, b is an integer of 15 to 2154, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1949, and where b is greater than or equal to $a + 14$.</p>	<p>AW388071, AW388070, AW392828, AW170095, AI139114, AA130783, AI796575, AI582280, AW392825, AW392827, AI032971, AW388090, AI160038, AI631539, AI205291, AA143796, AI342617, AA086002, AI076563, AA550819, AW388098, AA086109, AI374885, AW392810, AA669949, AI146898, H99988, AA186384, AW392819, AA303484, AI335908, AI917197, AI094414, W32500, F02983, H77763, AA371674, D58760, AW131074, AA148180, AW392820, AA148700, AA130888, R72708, AA412284, AW363332, H77594, AA470006, AW079549, AA224383, AA151480, AA303341, R00959, AA150531, F04202, D59193, AA099042, R00958, AA650273, R43795, AI571527, AA151983, AA583490, F04991, W02164, AA303931, AA098988, AA149391, T28556, T17080, AW135027, AA148701, AA747401, AW406447, AI479148, N28704, AW021399, W01939, AW270652, AA601667, AL042054, N71729, T60887, X64123, Z98036, AC004231, AC005971, AC002558, AF129756, AC005514, AC005527, AL022316, AC003980, AC007014, AL133245, AL117344, AC003950, AC004233, AP000229</p>
1950	HWMBU8 9	883172	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 638 of SEQ ID NO:1950, b is an integer of 15 to 652, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1950, and where b is greater than or equal to $a + 14$.</p>	<p>AA368362, T52098, R69052, R27072, AA397783, AA393589, T95399, AA912955, AW137196, AA155762, AA188555</p>
1951	HUFBY15	883201	<p>Preferably excluded from the</p>	<p>AA625286, AA303053, AA303052, AA297581</p>

1952	HIBCE91	883254	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 455 of SEQ ID NO:1951, b is an integer of 15 to 469, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1951, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 741 of SEQ ID NO:1952, b is an integer of 15 to 755, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1952, and where b is greater than or equal to a + 14.</p>	<p>W00425, AA349641, N42533, AI557558, AI557559, AW360991, R12333, AI557560, Z46216, AI890540, AA448602, N56299, AW103800, AC003007, AC005632</p>
1953	HWLKF77	883371	<p>Present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1008 of SEQ ID NO:1953, b is an integer of 15 to 1022, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1953, and where b is greater than or equal to a + 14.</p>	<p>AI478843, AA628092, AI816845, AI813678, AW269372, AI310217, AI742137, AI887196, AA722779, AA740417, AI363399, H94805, H95343, AA890712, AA643210, AI7433293, AI362725, AI391652, AA410876, AI474205, AI261631, AI280434, AI832281, AW001746, AA449475, AI459617, AW152661, W32215, H61131, AI190504, AI282582, AI872611, W32179, AA449638, AI345648, AI271086, AI473071, AJ245719</p>
1954	HOGCA75	883753	<p>Preferably excluded from the</p>	<p>AA523290, AA700004, AI927220, AW170580, W74492,</p>

<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1762 of SEQ ID NO:1954, b is an integer of 15 to 1776, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1954, and where b is greater than or equal to a + 14.</p>	<p>AI859845, AI991311, AA522795, AI081052, AA535079, AI400364, AI335984, AW193221, AW170345, AA622540, AI273767, AW168283, AI188508, AA565989, AI559433, AI420481, AI246782, AI928146, AA157892, AA314960, AI281336, AW194453, AA838633, AA844471, AI401064, AI949231, AI911649, AI268908, AI874198, AI186144, AI819846, AI276313, AI874344, AI963847, AW193320, AI863584, AW167101, AW168206, AA149417, W79089, AA506616, AI564546, AL036495, AA434123, AI560666, AA149738, W02467, AA948146, C06165, AI660464, AW167111, AI961910, AI343369, AW194388, AI567796, AW009339, AA434059, AI739607, AI280032, R48300, AA551656, AW167849, AI346572, AI923100, AI005290, AI091394, H93341, AA295491, AI588982, AI819915, AI950029, AI991855, AI347074, AI347076, AI660868, AW374558, AI682624, AI348165, AI949885, AI347071, AW014104, AA582757, AI860565, AI222884, AI861959, AI283186, AI347501, AI305833, AI031766, AI346386, AI346944, AW189088, AI032425, AI283162, AI347072, H27323, AI214245, AI346606, AI743195, AW015201, AI347060, AI346569, AW275383, AI281140, AI346475, AI743978, AI274133, AI738882, AI273374, AI347930, AI738627, AI991114, AI097004, AI144005, AI304544, AA569935, AI281141, U46417, AA157596, AI274318, AI285074, AI346274, AI336454, AI346908, AW374542, AI339875, AI014860, AA293207, AI339827, AI861957, AI281257, AI243957, AI281300, AI336446, AI660830, AI347929, AI368165, AA477634, AA411444, AI343934, AI636236, AI274312, AI424819, AW024873, AI337303, AI339815, AI470046, AI690641, AI284953, AI284985,</p>
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	AI077453, AI304526, AI272752, AI283882, AA149402, AI346977, AI345971, AI281170, AA568902, AI274915, H27350, AI262634, AI217716, AW000877, AW374541, AI818196, AI738744, AI285000, AI348231, AI274936, AI263949, AI347005, AW242694, AI280854, AI970403, AI273369, AI346999, AI304778, AI739069, AA574044, AI186095, AW167644, AI346193, AI688345, AI346941, AI346989, AI281121, AW043573, AA149303, AW024983, AI280872, AI274189, AI915133, H44304, AI318406, AI272747, AI273217, AA427468, AA574043, AI277124, AI669863, AI245933, AI246742, AI262266, AI873728, AI688346, AA633341, AA864657, AI318388, AW016561, AI672959, AA434269, R12121, AI262441, AA506660, AW299999, AI290431, AI274388, AI312741, AW027199, AW044256, R36883, AI741229, H93844, AI955566, AA506754, AI537131, N72688, H13937, AI346220, AI394296, H27324, AI222762, AI280169, AW374650, AI272760, AW237322, AA916675, AI262447, AA923527, AW136052, AA492265, AB000712, D88492, AB000714, AF007189, AF095905, AJ011656, AC004643, M74067, AJ130941, AJ249735, E13998, AL049423, AL133655, U30290, AR005195, AL133607, AL133084, AL133070, AL133053, AL133051, AL133049, AL133076, AL133608, D87953, AL122101, AL133015, AL133057, AF002985, AR055519, AR015970, AR034821, AF114168, AL122049, AF126531, AC004213, AF057300, AF057299, AF031147, Y17957, Y14735, X70685, AF052110, X72624, T96099, R05961, R05962, R48403, R50075, R50076, W21446, AA430665, AA492185, AA505980, AA563652, AA595940, AA622827, AA863314, AA886772, AA284679, AA293130, AA293763, D25752, T24860, AI540462

1955	HOGCI47	883799	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1115 of SEQ ID NO:1955, b is an integer of 15 to 1129, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1955, and where b is greater than or equal to a + 14.</p>	<p>AW054994, F33829, AI560717, AI268302, AW005178, F22745, AA284546, AW296592, AI298213, AI356840, AI493477, F36987, AI081004, AI038823, AI633219, T66954, T36169, W71988, Z39991, H50924, AA284816, F09164, AA043299, T31835, M78780, AA745562, H16657, AW262658, AA745578, AA744099, AI349099, AA989269, R72575, H51586, AA744396, T79883, W76380, H16514, H38527, AA995198, AA296888, AA541441, F11503, AI475083, AI302606, AA043300, AA886838, R54219, AI125823, T66953, AA745444, AW361009, AA296951, F03443, AA297044, AA335686, F05047, R37601, AA090754, AI970619, Z44304, AW374215, AI547101, R51823, AA783044, AA594940, AW176749, AA583598, T15585, R49122, AA085248, AFL131774</p>
1956	HWLUT61	883945	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 265 of SEQ ID NO:1956, b is an integer of 15 to 279, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1956, and where b is greater than or equal to a + 14.</p>	<p>AI942421, AA588562, AI942402, AI520886, AI867203, AA995170, AA045481, AW380270, AI680440, AI362487, AI591163, R82350, AI934005, AW089784, C04722, AA046708, AI690012, AA016994, AI274637, AI872632, D19775, AI985406, AL049685, AL049792, AF093744</p>
1957	HLTBA42	883971	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 909 of SEQ ID NO:1957, b is an integer of 15 to 923, where both a and b correspond to the positions of</p>	<p>AI767559, AI631820, AI758931, AI758389, AW118708, AA630485, AA761469, AW195693, T89742, AA807177, AA361233, AI679708, AI244041, AI572549, AA947977, AI679134</p>

1958	HHEHB82	884038	nucleotide residues shown in SEQ ID NO:1957, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1743 of SEQ ID NO:1958, b is an integer of 15 to 1757, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1958, and where b is greater than or equal to a + 14.	AI676130, AI991800, AI936232, AA307685, W67860, AI640485, AI628790, AA524353, AI824956, AI990762, AI800990, AI335005, N31143, N21294, AW152627, AW302169, AW02644, N21128, AI333331, AA994852, AA983846, AA595031, AI420382, AA610108, N90992, AW071591, AI240604, AA678009, N31229, AI264921, AI655233, AI611678, R70013, AA579237, AW015641, T64746, T31944, AA570191, AA084445, AA935035, C15927, AA358195, AA081627, T07826, N94623, T34036, Z44938, AA380035, AA579517, R58098, Z44410, N69498, D60023, D52558, AW373952, AW369584, R70058, AW089404, AW373174, AW373195, W23822, Z41687, T83793, T32675, W67803, AI566308, H98950, F03903, AA358196, AI360228, AA129234, AA913439, AA094862, AA129262, AF151882, Z85996, D16898, AF090992
1959	HE2PR08	884095	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2842 of SEQ ID NO:1959, b is an integer of 15 to 2856, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1959, and where b is greater than or equal to a + 14.	Z78394, AA579630, AA582960, AI885325, AI936536, AI041202, AA224518, AA524291, AA224554, AW408821, AW089837, AA846846, AI039992, AI201511, AI798847, AA582557, AI863290, AW387178, AI809936, AW173427, AI808766, AA824622, AA769229, AA884837, AA314430, AI243818, R80863, AA736387, AI167988, T77889, AI830058, AA868007, AA280913, AA808467, T03578, AW192356, H70647, AI264722, AA553758, AA854986, R80862, AA323841, H91024, AW050796, AI086287, T77712, AI912397, AW117749, AW173596, AA653386, AW438592, AA349239, AI277285, AI648701, AA330244, AI120761, Z78395, T47786, W38742, T47820, AA634686, AA091136
1960	HMKAN71	884161	Preferably excluded from the present invention are one or more	AI635715, AW411210, AI624534, AA879465, AW104990, AW409582, AI766309, AA081177,

1961	HSIFV30	884168	<p>polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1706 of SEQ ID NO:1960, b is an integer of 15 to 1720, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1960, and where b is greater than or equal to a + 14.</p>	<p>AI803484, R78080, AI129966, AI925109, AI804159, AA279212, AA410910, AA678827, AI860837, AI183591, AW316983, AI431314, AA766602, AA081236, AW194027, AI521521, Z38832, AA588351, AI923638, N39554, R22273, AA47188, AA769352, T52102, AA371263, AA259257, T60532, AW411209, R22218, Z42670, AA443811, AA969814, AA729654, AA259256, AI969030, AW409826, R24524</p>
1961	HSIFV30	884168	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2840 of SEQ ID NO:1961, b is an integer of 15 to 2854, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1961, and where b is greater than or equal to a + 14.</p>	<p>AI660957, AW361534, AW361532, AI802756, AW361521, AW361520, AW009763, AI660234, AI802693, AW361523, AI721275, AA581198, AW361522, AW361528, AA296955, AI721121, AA508854, AA297150, AW009764, D25727, AI687981, AI582072, AF127036, AF039400, AF095584, AB017156, AF039401, I95746</p>
1962	HNTSV52	884215	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4073 of SEQ ID NO:1962, b is an integer of 15 to 4087, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1962, and where b is greater than or equal to a + 14.</p>	<p>AI815240, AI631739, AA309645, AI696961, AI479235, AA307961, AI978872, AW195761, AA280818, AI990440, AW262762, AI809185, AI037930, AI637988, AI754009, AA181165, AA972531, AI817057, AI494056, AW073248, AA181166, AI826853, AI361369, AI149286, AI752584, W52618, AW339206, AW075435, AA115631, AI445241, AI523220, M62298, AA558913, AW368570, N51760, AA348679, AI735744, AW384980, AW384967, AI802541, Z19223, N35007, N74118, H03102, AA102848, Z25028, AI624448, AI279412, AI476071, AA385867, AA095022, AW194583, AI383593, AA360919, R79669, Z28444, AA506352, R26853, AA133388, AA330074, N30413, Z28730, AA020013,</p>

1963	HCR0M43	884379	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 787 of SEQ ID NO:1963, b is an integer of 15 to 801, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1963, and where b is greater than or equal to a + 14.</p>	<p>AI954282, R79858, D31597, R77935, AA280996, H99307, AA020014, R27081, AI950631, AA295264, AA402581, AA093272, AA093324, AA248050, AI221843, N47215, AL080111, AR044142, AR044127</p> <p>AW374334, AI064813, T31706, T08905, R94666, T09212, T31698, T83796, AA714176, T27030, AI655004, AW239098, AF196972</p>
1964	HLWCF60	884529	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1612 of SEQ ID NO:1964, b is an integer of 15 to 1626, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1964, and where b is greater than or equal to a + 14.</p>	<p>AI083497, H14688, N77514, AW015613, H16869, AA377154, AW194949, AA378912, AW390260, H24407, AA307120, W39491, F25064, AA252725, AI539349, AA252714, H17215, AA136412, AA076537, AA076506, R57305, H06942, AA488566, AF151908</p>
1965	HWLKD85	884719	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 576 of SEQ ID NO:1965, b is an integer of 15 to 590, where both a and b</p>	<p>AA282838, AA121115, AA323118, AI351856, AA325395, AA248006, AB028859, AJ250137</p>

1966	HCRMX54	885350	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:1965, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1956 of SEQ ID NO:1966, b is an integer of 15 to 1970, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1966, and where b is greater than or equal to a + 14.</p>	<p>AL038837, AL037051, AL039074, AL039128, AL039109, AL039108, AL039659, AL039156, AL045337, AL039625, AL039648, AL039629, AL039678, AL042909, AL040992, AL039564, AL038531, AL037726, AL045353, AL036973, AL044407, AL039410, AL039423, AL039538, AL039386, AL044530, AL039566, AL039509, AL036725, AL045341, AL039150, AL036196, AL037639, AL038025, AL039924, AL036767, AL037615, AL038821, AL036117, AL036238, AL043441, AL045794, AL039085, T24119, T24112, AL036679, AW013814, AL043445, AL043422, AL037526, AL037027, AL037601, AL043423, AL036924, AL036964, AL036158, AL036765, H00069, AL036268, AL036733, AL037177, AL037054, AL036418, T23947, AL036998, T02921, AL036133, AW451070, AL037643, AL036132, AL037082, AL038851, AL036167, AL036163, AL037178, AL037049, AL037085, AL036190, AL037600, AL036914, AL036139, AL037047, AI535983, AL037124, AI535783, AL037021, AL036191, AW452756, Z99396, AL044960, AL036152, R47228, AL036900, D51250, AL036150, AL036227, AL048425, AL036207, AL036174, AL036953, AL036719, AL037679, T23659, D80253, AL036858, AL037077, AL036808, D59787, AL038043, AL037569, D80043, D59275, D80219, T48598, AA514190, Z25782, AL038447, D80227, AW450376, D80240, D80134, AA631969, AL037002, D51423, T11051, AL036999, D80210, Z25783, D59619, H00072, AL037016, C14227, AL037094, AL036630, D80193, D80196, AW135155, D80168, AL039440, D59927, AI557751,</p>
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	AL036229, AL039076, AL037742, D80366, AL043868, AW392670, AL038509, AL039077, AL119457, AL119324, AI142134, AL042544, C75259, AW451416, AL119443, AL119399, AL038520, AW384394, AW372827, AW363220, AL119497, AL119319, AL119355, AL119483, AL119363, U46349, AL119391, AL119484, C14389, U46341, U46350, AL119522, AL119418, U46351, AL119341, AL119335, AL039504, AL039555, AL039521, AL119396, AL039476, AL043586, AL044412, AL044364, U46346, AL119496, U46347, AL119444, AL036836, AL043011, D59889, AL037205, AL119439, AL042984, AL119464, AL134527, AL134538, AL042614, AL042965, AL042975, AL043029, U46345, Z96142, V00745, X73004, AR036903, E13740, I19517, A76773, A22413, I13349, A11245, A35536, A35537, A02135, A02136, A10361, A04663, A04664, I08051, AF118808, I01992, A92636, E03165, E02221, E01614, E13364, X68127, A95051, AR062871, AR031374, A49700, AR031375, A58521, AR020969, AR025207, AR017907, AR036905, A38214, A44171, I56772, I95540, AR018924, A63067, A51047, A63064, AR018923, A48774, A63072, A48775, AR068507, AR068506, AR015960, AR000007, AR015961, A85477, AR035975, AJ244003, AJ244004, AR035974, AR035977, A85396, AR035976, AR035978, A25909, A98767, I19516, A93963, A93964, I63120, A02712, I60241, I60242, A95052, AR043602, AR043603, AR043601, A95117, A18053, I06859, A18050, A23334, A75888, I70384, A60111, A23633, AR007512, A23998, A84772, A84776, A84773, A84775, AR062872, A84774, AR062873, AR067731, AR037157, AR067732, A86792, A58522, A91750, AR054109, A64081, A20702, A43189, A43188, A20700, I18371, A92133, A58524, A58523, A24783, A24782, A81878, I03343, AR022240, A97211,

1967	HTPHK88	885476	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1208 of SEQ ID NO:1967, b is an integer of 15 to 1222, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1967, and where b is greater</p>	A02710, E12615, AR035193, E14304, A07700, A13392, A13393, A27396, AR027100, I28266, I21869, A49045, E16678, E16636, A82653, A93016, D28584, I25027, I26929, I44515, I26928, I26930, I26927, A58525, A70040, A51384, AR038762, I49890, I44516, AF156296, AR000006, A58526, A91753, I00079, E16590, AF156294, AJ244005, AJ230933, A91965, A67220, Y11923, AR027069, A20701, A04710, Y11926, A52326, A15078, I00074, I03665, I03664, D88984, U87250, I66495, I66494, I66498, I66497, I66496, I66486, I66487, E00523, AR038286, I25041, I92483, I00077, AR008430, AF156303, AR028564, AR060673, AR060676, A49428, A08457, A08458, AF156299, I07429, A13038, A29289, X13220, D14548, D34614, A00782, A02741, A14595, A18755, A25856, I12245, A49695, A49696, A97221, AF019720, AF156302, S70644, A18722, AF156304, A91754, M32676, AB012117, AF096810, E06034, I69350, S65373, X58217, AR064706, I68636, A60957, I40851, I84554, I84553, A60968, A60983, Y11449, AF096793, AR066482, A60985, A60990, A60987, D44443, X15418, AB007195, Y17188, A10363, AF130655, X73003, I08250, X16234, E04616, I03663, I03666, I18302, S83538, Y11447, AR063812, I07888, Y11920 AA433834, AA427986, W38581, AA362763, AA331674, W05306, AA029735, AA331672, W93893, H46399, AI672548, AI637672, AA025077, R26502
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1968	HCQBD35	885484	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1424 of SEQ ID NO:1968, b is an integer of 15 to 1438, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1968, and where b is greater than or equal to $a + 14$.</p>	AA056059, N55045, AI016561, AL035552, Z82975, AC004388, AC004993, AC010722, AC006924, AL033397, AL022151, Z84720, AL109654, AC005145, AL136297, AC004081, AL121823, AC007458, AP000493, AC005053, Z93403, L11910, Z72001, AC004911, AC002071, AL121654, Z99497, AL109758, AL133244, AL034377, AC002524, AC004998, AC002367, AL049588, AC006041, AL022164, AL031650, AL117667, Z83848, AC003080, AC005250
1969	HLQFI67	885511	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 509 of SEQ ID NO:1969, b is an integer of 15 to 523, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1969, and where b is greater than or equal to $a + 14$.</p>	R08489, AI683117, AA724056, AI571789, AA489761, AW341505, AI590115, AI884695, AI651965, AI863337, AI028587, AI246696, AI920847, R76087, AI032590, AA835680, AA508647, AA765513, AI791278, H51121, AI568523, AA034147, AA513202, AA053714, T99214, AI821534, Z82198, Z82201, AC008014, AC005296, AL031782, AL133512, Z74696, AC008498, L81800, AC005871, AC002209, Z98744, AC003695, AC004559, AP001117, AC004616, AC004836, AC005069, AC004068, AL049648, U69569, AC006325, AC006256, AC007126, AC004106, AF093117, AL049828, AL023806, AC002078, Z72004, AL049734, AC005066, AC006406, AL023582, AC006368, Z70288, AL133246, AC008080, AF165175, AC007370, AC005539, AC007461, AC005738, AL023579, AL022477, AL035684, AL022576, AC002526, AC007542, AL132800, AF165176, AL078598, AC008126, AC008072, AF064860, AL031681, AC007385, AC005232, AC004885, AC007103, AC005157, AE000660, AC004063, AC003046, AL035686, AC007016, AL078602, AL109612, AL117355, U85197, AJ010598, AL135746, AC006143, AC006032, AL035667, AP000243,

1970	HABV26	886331	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 761 of SEQ ID NO:1970, b is an integer of 15 to 775, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1970, and where b is greater than or equal to a + 14.</p>	<p>AP000203, AL034417, AF042090, U71148, AC005533, AC004042, AL079352, AL049844, AL031123, AC004788, AC003119, AC007786, AL031965</p> <p>AW160977, AW392670, AL119483, AL119497, AL119443, U46341, AW372827, AW384394, AW363220, AL119319, AL119457, AL042975, AL119324, Z99396, U46351, AL119484, AL119363, AL119341, AL119391, AL119355, U46350, U46347, U46349, AL119444, AL119302, AL119396, U46346, AL119335, AL043011, AL134920, AL134533, AL119439, AL119522, AL119496, AL042970, AL134538, AL119399, AL042965, AL134518, AL037205, U46345, AL119418, AL042614, AL042995, AL134531, AL042896, AL043029, AL042450, AL042544, AL134526, AL042542, AI142139, AL043019, AL042984, AL042551, AL043003, AL119464, AL119488, AL117339, AB026436, AR054110, A81671, AR060234, AR066494, AR069079, U27699</p>
1971	HBJJF90	886505	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1120 of SEQ ID NO:1971, b is an integer of 15 to 1134, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1971, and where b is greater than or equal to a + 14.</p>	<p>AI291206, AI692352, AA159669, AA166774, W87878, H60270, R00390, AI174957, AA082398, AA047213, AI567717, N58610, AA384188, AA344124, AI970562, AI572002, AI860354, AA035047, N26366, AA382178, R21443, AA649513, AA294966, AA393451, AW372027, AW383791, N79097, AW176696, AA579377, AW383795, AW363037, AW372042, AW372015, AI887591, AW383956, AI590368, AA489105, AW379471, H72198, W57920, AA989009, AA286892, AW363951, AA047214, AW372040, AA459578, AW383793, AW383800, AA092369, AW383794, AW364575, AW383786, AC004686, AF161410</p>
1972	HWLFB44	886527	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 437 of</p>	<p>AI688604, AI660552, AI659950, AW296326, AW291582, AI700219, AI380340, AW004785, AW295479, AW006764, AI688540, AA522452, AA594441, AI695451, AA470898, AA594533, AI581787, AI581803, AI581880, AI832419</p>

1973	HCE4U96	886788	<p>SEQ ID NO:1972, b is an integer of 15 to 451, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1972, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1371 of SEQ ID NO:1973, b is an integer of 15 to 1385, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1973, and where b is greater than or equal to a + 14.</p>	<p>AI688460, T09220, AA338971, AI969431, AI862437, AI862438, Z42464, W46479, AW163719, AW139376, AA314949, AI214207, AC004382</p>
1974	HWLEL48	886914	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 734 of SEQ ID NO:1974, b is an integer of 15 to 748, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1974, and where b is greater than or equal to a + 14.</p>	<p>AW014333, AW376283, I82554, U79725, I82549</p>
1975	HTGBT14	887098	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 757 of</p>	<p>AA528172, AI870515, AW022634, AI122636, AI807139, AI524135, AW117562, AI332968, W94241, AI034051, AW119174, N53839, AI378914, AI708759, AA699609, AA425884, AA909771, AI086409, AI312652, AI382156, AI161356, AA635388, AA633491, W94238, W46444, AA746370, AA228039,</p>

<p>SEQ ID NO:1975, b is an integer of 15 to 771, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1975, and where b is greater than or equal to a + 14.</p>	<p>AI362190, AA443159, AA975136, AI144548, W94114, R33101, AA713985, AI350918, AI301665, AA928203, AI864872, AA702159, AI052284, AI340996, W95293, AA228149, AI497988, AA084519, AA223979, F22291, F21666, AW262545, AI421254, W69785, AI492628, F22149, AI038217, AA782142, H51447, F29644, W95550, AA633151, W51800, AA524187, AI220373, AI718892, AA978346, H51405, AA866163, N73336, T48735, F26124, AI971845, W78797, AA704978, W69733, AI066547, AA082415, AA224044, AA918327, W92564, Z22018, AA306319, AA928012, W46469, AA002051, AA463446, AA970170, W95702, F36672, F20308, R33196, AI460269, F34207, W95701, AA378930, AA090815, AA661851, C21256, T48734, F18648, AA428745, AA093730, AA666150, AA062817, AI027170, AA001847, AI264217, AI653972, AI202069, AL079963, AI539028, AW149925, AI269862, AI364788, AL047763, AL041150, AL042628, AW198075, AI537989, AI932794, AW268220, AI334450, H89138, AI564259, AL119863, AI648663, AI344928, AI358701, AI582932, AL036638, AL045500, AI570807, AL045266, AW079572, AI308032, AI698391, AI344785, AI670009, AW087445, AI889953, AI520809, AA225339, AI345148, AI433976, AL037454, AI620284, AI468872, AW020693, AI335209, AI433157, AI270183, AI554821, AW151136, AI539771, AI537677, AI494201, AI802542, AI500659, AL036631, AW168485, F27788, AI815232, AI801325, AI500523, AI866090, N80094, AI923989, AI284517, AI500706, AI445237, AI491776, AW151138, AI889189, AI521560, AI500662, AI284509, AI288285, AI889168, AI866573, AI633493, AI434256, AI627988, AI344933, AI805769, AI888661, AI284513, AI888118, AI524671, AW162194, AI889147, AI812015,</p>
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AI440252, AI306613, AW051088, AI433037, AI632408, AI886181, AW268302, AA715307, AW072719, AI933589, AI611348, AI635067, AI610645, AL040243, AW103371, AI608936, AI874166, AI254731, AI921248, AI819976, AW023859, AL119791, AL043981, AI886753, AI349004, AI686906, AI927755, AL121270, AI798456, AW051258, AL042551, AI624293, AI611738, AW148970, AI571909, AI619502, AI677796, AI352497, AI349598, AI684021, AI288305, AW118518, AL039276, AW269097, AW026882, AI923370, AI269205, AI064830, AI929108, AI436429, AW193125, AL110402, AI371228, AI500061, AI572892, AI613548, AW083804, AI654276, AI620089, AC004985, AF161453, AF015416, AI2297, I89947, AL133014, AL137271, AL122049, AF111851, AF091084, AF118094, AL133072, A08913, AF078844, AL137521, AL137557, AL117435, AF113019, AL049283, I33392, AL133016, AF026816, AL110280, I48978, AF185576, A08916, U35846, AF008439, A08910, I89931, A08909, AL137538, AL050138, X72889, I49625, AL137459, U80742, AF090901, X98834, AL049464, AF106862, U72620, AL122110, AR011880, AL133080, AF125948, AL133077, AF177401, U91329, AL049452, AL049300, AF125949, A65341, Z82022, AF090903, AL133560, AL137463, AF087943, AL133606, E03348, I03321, AL137560, AL117460, Y14314, AL050149, AL080124, E07361, AF113694, X82434, AF113689, Y16645, AL110196, A77033, A77035, AL080159, E15569, S78214, I48979, S68736, AL049466, A58524, A58523, I00734, X93495, X65873, AF113690, AF090934, AF113677, Y11254, AL049382, E02349, AF113013, AL050277, AL050116, E00617, E00717, E00778, AL122093, AL050393, AL122121, A08912, I26207, AF104032, AF067728, U00763,				
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1976	HKLRB09	887114	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1698 of</p>	<p>AJ238278, X63574, AJ012755, AL122123, AL133104, AF017437, AF097996, AL050024, AL133640, AL117583, AL117585, AL122098, AL133113, U42766, A03736, X96540, AF061943, AF003737, AF162270, Y11587, AL137550, AF090943, AF183393, AF158248, AL137292, S61953, U67958, I42402, A93350, AF026124, AF017152, AF090900, AR038854, AL080074, AR000496, U39656, Z72491, AF079763, AR059958, AL110221, AL117457, AF111112, AB019565, AF119337, AL049430, AF113699, AF153205, AF113691, E07108, A07647, AL050146, AL137476, AL137526, I09360, X70685, AL049314, AL137648, AJ242859, L31396, AL096744, AL110225, AL117394, L31397, AL133093, AF113676, AL133565, AF079765, AF057300, AF057299, AJ000937, L30117, AF111849, AL133557, E02221, AL080060, AL133067, AL137556, A90832, AL050172, AF210052, AL122118, AF118070, AL122050, AL133098, AL137533, AL050108, AF146568, AF090896, AF106657, AF118064, M30514, X84990, AL080127, AL133075, AL117440, AL080137, AL137527, E08263, E08264, A93016, AL137480, AF032666, AL049938, A45787, E04233, U96683, AL133568, AJ006417, X53587, AR038969, AR013797, AL133081, AL110197, Y09972, AF061573, U68387, AL137523, X87582, U58996, Y07905, AF081195, AL137294, AL137283, E06743, X83508, AR020905, AL137478, AL137488, AL050092, E05822, E08631, Y10080, L19437, I09499, U78525, AF051325, X92070, AL137705, AL023657, AL117432, AF081197, U49908, AL080086, AF106827, Z37987</p> <p>AI732659, AI791955, AA577625, AW083143, AW138645, AL038837, AL039074, AL039564, AL039109, AL039108, AL039156, AL037051, AL038531, AL039659, AL036725, AL039625, AL039648, AL039629, AL039678, AL040992, AL039150, AL039128, AL037726, AL045337,</p>
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<p>SEQ ID NO:1976, b is an integer of 15 to 1712, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1976, and where b is greater than or equal to a + 14.</p>	<p>AL042909, AL039423, AL039410, AL039085, AL045353, AL036973, AL044407, AL039538, AL039924, AL039386, AL038821, AL044530, AL039566, AL039509, AL036196, AL043445, AL037526, AL037639, AL038025, AL036418, AL045341, T24119, AL043422, T24112, AL037615, AL036767, AW013814, AL043441, AL045794, H00069, AL043423, AL036924, AL037082, AL038851, AL037104, AL036117, AL036238, T23947, AL036190, AL036679, AW451070, AL036733, Z99396, AW452756, AL037081, AL037027, AL037601, AL036191, T02921, AL037178, AI535983, AL036158, D51250, AL036765, AL036998, AI535783, AL037054, AL036964, R47228, AL036174, AL037177, AL037021, AL037643, T23659, AL037600, D80253, AL037049, AL037124, AL036858, AL037077, AL036139, AL119457, D59787, AL036132, AL036167, D80043, AL036268, D59275, AL037085, AW450376, AL036152, D80219, AL042544, AL036228, AL119399, T48598, AA514190, Z25782, AL036900, AL038447, D80227, AL036953, AL036808, AL119324, AL042382, AL037047, AL036207, AL079794, AL036227, D80240, AL041862, AL036742, D80134, AL036719, AA631969, AL036150, AL037002, D51423, T11051, AI763414, AL042745, AL119511, AL036999, AL119748, AI174394, AL040243, AL037679, AL042628, AL037569, D80210, Z25783, AI696819, AW151136, AL047675, AL079741, AL046356, D59619, AW029611, AI280732, AL045266, AL079977, AW071349, AI608936, AL042744, AI249877, AL045620, AL046926, AI591407, AW089179, AL047092, AL045163, AL039276, H00072, AL121286, AI433976, AI680162, AL045500, AL042787, AI433157, AI554821, AL049085, AI539771, AI537677, AI432666, AI500659, AI815232, AI648502, AI805769, AI801325, AI648663, AI500523, AI625467, AI582932, AI923989,</p>
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AW088899, AI433968, AI866573, AI633493,
AI434256, AI888661, AI284513, AI888118,
AI758816, AI633419, AI440252, AI610115,
AW088903, AL045774, AL040241, AI269862,
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AI799199, AW190042, AI932794, AW073994,
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AR043601, A95117, A18053, I06859, A18050,
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A24782, A35536, A35537, AR022240, A02135,

				A02136, A04663, A04664, A11245, A02710, E12615, AR035193, E14304, A07700, I00074, I01992, A13392, A13393, I19517, A27396, A76773, A22413, I28266, I21869, I13349, AR027100, A49045, I25027, E16678, E03165, E16636, I26929, A82653, I44515, I26928, I26930, I26927, A58525, I08051, A93016, A51384, I03665, Y11923, I03664, A15078, A70040, AF156294, A97211, E16590, E00523, AR038286, I25041, I92483, AR000006, AR038762, D88984, I49890, I44516, U87250, A92636, I00079, D14548, E02221, E01614, E13364, A58526, A91753, I00077, AR008430, AR035975, AR035974, AR035977, AR035976, AR035978, D34614, AF019720, S70644, AF096810, A18722, A91754, AB012117, A97221, AF156303, AF156302, X58217, AR064706, I07429, I68636, M32676, AF156304, A10361, AF156299, A60957, I84554, I84553, A60968, AF096793, Y11449, AR066482, A60985, A60990, A60987, S65373, Y17188, A91965, D44443, AB007195, X15418, I69350, AF130655, AR027069, A10363, A20701, X73003, A52326, A04710, I08250, E04616, X13220, S83538, Y11447, AR063812, I07888, E06034, Y11920, Y11587, AL122049, AF156300, AR066494, AR060234, I03663, AL137271, A02711, AF183393, AL117585, AJ000937, I89947, I48978, U80742, AL137463 AW408152, AW263155, AA360413, AA314512
1977	H2LAS29	887155	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 484 of SEQ ID NO:1977, b is an integer of 15 to 498, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	

1978	HMEKH10	887172	<p>NO:1977, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4471 of SEQ ID NO:1978, b is an integer of 15 to 4485, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1978, and where b is greater than or equal to a + 14.</p>	<p>AW341677, T06373, AA9233375, AI902953, AI016704, AI817516, AI963720, N92756, AL037683, AW303196, AW301350, AW274349, AI368745, AI345681, AI345675, AW088846, AI270117, AW271904, AA577748, AL045077, AI859946, AI267818, AI625244, AI679782, AW302048, AI570261, AW029038, AL044940, AI696962, AW162049, AI929531, AW276435, AA843450, AA587604, AI962050, AA828047, AI061313, AA878149, AA603323, AA502175, AW191886, AI457397, AW407578, AI370475, AW021116, AW088202, AI339850, AI814735, AI890348, AA501784, AW075511, AL038785, AI561060, AW263864, AA503258, AA904211, AL138265, AA533408, AA177061, AA601680, AI918421, AI567674, AI049722, F17700, AA490183, AF085833, U95822, AC006480, AC006441, AC005102, AP000553, AC002492, AL022328, AL020997, AC004217, AC004491, AC002350, AC003003, AC005736, AL133448, AL034555, Z98036, AC005081, AC004967, AL022318, U91326, AL121658, AC007666, AC005562, AC004659, AC005488, AC006011, AL049569, AC020663, Z95152, AL133355, AC004841, AF030453, AL031283, AL034549, AC007242, AC005011, AC002425, AC007055, AB023049, Z83838, AC008009, AF053356, AC002565, AC007192, AL132712, AC005666, AC005839, AL049795, AL033376, AL034423, AC005529, AL022165, AC004019, AC005088, AL024498, AL049830, AC004859, AC009516, AF001552, AL020993, U63721, AC006271, AC004228, AL021395, Z84480, AC004531, AC006449, AF001549, AC000052, AF031078, AP000502, AC004966, AL022313, U91323, AC004087, Z93241, AC005874, AF134471, AF030876, AC004878,</p>
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1979	HWLWR3 9	887192	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2472 of SEQ ID NO:1979, b is an integer of 15 to 2486, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1979, and where b is greater than or equal to a + 14.</p>	AC005911, AC002549, R69689 AI088434, AA621667, AI346645, AW263010, AI609518, AI625220, AW304172, AW029222, AI608891, AI813425, AW276382, AI827115, AW074235, AI858601, AW082804, AI985831, AA669865, AW170309, AA618054, AI795849, AI683880, AI281027, AI963363, AI623888, AI828889, AW192796, AI818478, AW188700, AW316981, AW183022, AI144179, AA738239, AI955571, AI128137, AA975350, AA523124, AA161208, AI952102, AW339226, AI589258, AA781230, AW337829, AA931097, AI682815, AI348149, AA745890, AI000902, AI187264, AI554320, AA284668, AI304724, AW369971, AI591155, AI149294, AW083724, AI274754, AA969848, AW026240, AI750653, AI433158, AI350439, AA158743, AW238819, AW192073, AA157530, AI357834, AA464119, AA883794, AW176385, AA554892, AI910051, AW362693, AW337353, AW362669, AW062307, AI750652, AI188344, T89676, AI370440, R74284, AI766050, AA100117, AI431334, AA583615, AA284669, AA973099, T29593, AI750507, AA463985, AA192627, AI273199, F06065, AI269833, AI702408, R24159, AI624229, AI583131, AA040727, AW338259, T19421, AW362710, AA345817, AI686279, AI471394, AI702510, AA894583, R39975, AI589449, AA886172, AW081126, AW362723, AW362732, AA195849, AI915757, AI754103, R74194, T19420, AA906982, R27515, AI932864, R80161, R10151, AI269834, AA039591, AA158183, AL042359, AA159558, AW369968, R10562, AA159112, R25662, AA039590, AI1978, E01560, E01559, E00924, E01238, E02114, D00244, E01467, A21571, A09202, A35395, A04029, X02760, I03932, I07013, E00178, A10915, A10916, A18397, X02419, E00421, E02577, E02649, I08788,
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1980	HADME31	887280	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 901 of SEQ ID NO:1980, b is an integer of 15 to 915, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1980, and where b is greater than or equal to a + 14.</p>	<p>E02832, E02493, E04897, E02578, I48917, E02708, E02579, E02709, E03404, E03403, E03405, X51935, K02286, E06063, I56011, L03546, X85801, E00853, A08501, E06847, E06846, E03402, I05760, X63434, X02724, X01648, X65651, A20747, A83180, AF097647, E01176, A76865, Z36790, I01583, E01603, I01586, E01178, E01604, E01177, E04615, A27451, A27452, E03605, E03858, A31147, A31179, A31178, A31148, A07733, A07732, A31150, A31181, A31151</p> <p>AI376391, AW044644, AA435896, AI306612, AA824370, AA626315, AA991266, AI192974, N78952, AI401045, N78829, AI077370, AA448861, W68342, AA724792, AI708684, AI370929, AI015595, AI401211, AW043992, AA862620, AI201717, AW005929, AI498880, AI718029, AI333236, W93038, AI092949, AI147031, AI004135, W17346, AA027214, AI525556, AA447925, T98518, AA652731, AA585439, AA878662, W17259, D80253, D80043, D80219, D59787, D59275, AA401790, D80227, AI525316, D51250, W68383, D80240, AI541365, AA585356, D80045, D80210, D51423, AA585440, AI541510, D80134, AI535660, D59619, AI541508, D80391, AI526140, D80193, AI546855, AA585101, AI535639, Z30131, AI541523, AI546828, AI526180, AI541374, AI557731, AI541514, Z28355, D80196, C14227, D80949, AI557262, T11028, AI536138, D59927, AI546999, AI525306, AI557238, AI143531, AI547039, D80168, AI342055, D80366, AI541205, AA585453, AA585434, AI541535, AI541307, T11051, AA585476, D57491, AI556967, AI557799, C16300, R29445, AI525431, AI546945, AI540967, D81026, AI557082, D50995, C14014, AI541534, C16305, AI525856, AI525320, AI557808, AI525328, AI526194, C75259, AL040155, AL041346, AL041096, AL047012, AL041358, AL041277, AL041163,</p>
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1981	HFVJL45	887399	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1413 of SEQ ID NO:1981, b is an integer of 15 to 1427, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1981, and where b is greater than or equal to a + 14.</p>	<p>I13521, I52048, I44531, A90655, X58217, Y11923, V00745, I44516, AR031566, A58525, I01995, AR038066, AJ230933, AF019720, I18895, E03165, Y11926, A20699, E00696, E00697, A60957, E03813</p> <p>AA429438, AI074616, AW008223, AI523733, AA969328, AI309184, AI910363, T57069, AA973222, AW009928, AI266526, AA664093, AI808681, AI033844, AA860930, AA256367, H49508, AI807270, R95740, AA256366, R95884, AW449536, AI027719, H80516, AI674127, AI202271, T57140, T11308, Z20897, AI247797, AA494323, AI866606, AI866611, H49507, R20117, T18508, T81888, AI247938, AI150468, T71213, AL119324, AL119399, AL134524, AW372827, AL119443, AW392670, AL119391, AW363220, AW384394, AL119457, AL119484, AL134528, AL119439, AL042544, AL119319, AL119497, AL119522, U46346, AL119363, AL119335, AL119496, U46350, AL134518, U46349, AL119444, U46347, U46351, U46341, AI142132, Z99396, AL119355, AL119483, AL042614, AL119396, U46345, AL134538, AI142137, AL134530, AL134519, AL134531, AL119401, AL079687, AL037205, AL042980, AL042896, AL043037, L48516, AC004022, L76193, AC005021, AB026436, AR060234, A81671, AR054110, AR066494, AR069079</p>
1982	HWLFES6	887421	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 697 of SEQ ID NO:1982, b is an integer of 15 to 711, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1982, and where b is greater</p>	<p>AF061056, AF084644, AF084645, AJ009937, AJ009936</p>

1983	HSWBP93	887475	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 509 of SEQ ID NO:1983, b is an integer of 15 to 523, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1983, and where b is greater than or equal to $a + 14$.</p>	<p>AA218952, AA422118, AI267777, AA761846, AA974489, AA249308</p>
1984	HSLJF91	887535	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 450 of SEQ ID NO:1984, b is an integer of 15 to 464, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1984, and where b is greater than or equal to $a + 14$.</p>	<p>AI525881, D78870, H11172, R19956, AA308077, AI591060, AA350839, AI557291, AF091352, A64392, AB021221, S82167, X62568, M32977, A64394, A64398, A64402, AF022375, A92244, A64400, X81380, M31836, M32976, AF071015, AF133248, A92248, S85192, AJ010438, A92246, M27281, A64396, A92242, AF214570, E13215, AF186236, E15157, M32167, M33750, S38083, X89506, AF133249, AF133250, M63974, A64404, AF215726, AF222779, AF215725, L20913, S38100, S37052, AF062645, AF106942, AF022179, S85199</p>
1985	HKLSC61	887803	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 1219 of SEQ ID NO:1985, b is an integer of 15 to 1233, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1985, and where b is greater</p>	<p>AL039924, AL045794, AW013814, T02921, T24119, T24112, AL036630, D51250, D80043, D80253, D59787, D80219, AL039629, AL039625, AL039648, AL038837, AL039074, AL037726, AL039678, AL039108, AL039538, AL039564, AL039156, D59275, AL039659, AL039566, AL039509, AL039150, D80227, AL044530, AL038531, AL039109, AL038821, AL040992, H00069, AL043423, AL039128, AL044407, AL036973, AL045337, AL037051, AL045353, D80240, AL039386, AL039476, AL045341, AL039423, AL042909, AL043441, AL044412, AL039410,</p>

than or equal to a + 14.	AL043364, AL043445, AL038025, AL043422, D80210, AL036725, D51423, D80134, D59619, D80391, D80193, D59927, R47228, AL043586, D80196, D80949, C14227, AW450335, AL039521, AL039085, AL036196, T23947, AL037526, AI535783, AL037639, AW451070, D80366, D80168, AL037615, D80045, AI535983, AW452756, T11051, D81026, D50995, C14014, C75259, AL036767, AL036117, AL039459, AL039842, AL036924, D59889, AL037601, AI557751, AL036238, C15076, AL036733, AL037082, AL036679, AL038851, D80022, AL036418, D80038, T23659, AL037054, D80195, AL037027, AL036765, AL039504, AL036158, D58283, T11417, D81030, C14429, AW293068, D80188, AL037047, AL036964, AL036190, D51799, D80378, D59467, AL036650, F13647, AL036191, AL037104, T03269, AL037177, AL036998, AL037679, D50979, D80522, T48598, D80212, AL037178, C14298, AL036207, AL036227, D59502, AL037643, Z21582, AL036132, AL036167, AA285331, AL037600, AW450376, AA514190, D80164, C14331, D59859, D59695, D80166, AI021934, AL037124, D80269, AW206560, D80268, AL036152, AL042334, AL036174, Z25782, AL037021, D52291, D58253, D80024, AL048425, Z99396, AL036900, AL036139, D57483, AL044447, D59610, AL037085, D59627, D80241, AI910186, D81111, C14407, C14389, AW451416, H00072, T23656, AL037081, D51060, AL036228, AW178893, AA305409, AL037077, AL036268, D51079, AI763414, AL037569, AL036953, AW177440, AA305578, D51022, AW179328, AL039555, AW178775, D80014, AW378532, D80248, AL036808, AW352158, AW377671, AI905856, AW369651, D51213, D80251, D51097, AA514188, AL036858, AW178762, AW177501, D80064, AW177511, AL037002, AW360834, D80133, AA514186, AW360811, AI557774, AW378540, AW352117, T02974, Z25783, AL039417, C05695,

	AW176467, AW375405, AL044413, AW135155, D80132, AA809122, AW366296, AW179332, AW360844, AW360817, AW375406, AW378534, AW377672, D80439, AW179023, A85396, A25909, X68127, A85477, A86792, A44171, AR062871, A84775, AR062872, A84772, AR037157, AR062873, A84776, A84773, AR017907, A84774, AR067731, AR067732, A20702, A58522, A91750, A43189, A43188, A20700, AJ244003, AR036905, AR025207, A95051, A98767, A38214, A95117, A95052, I56772, I95540, AR018924, AR031374, A93963, A93964, A63067, A18053, A51047, A63064, AR018923, A49700, I18371, A48774, AR031375, AR043602, A63072, AR043603, AR043601, A48775, A23334, AR068507, A75888, I70384, AR068506, A18050, A60111, A23633, AR015960, A23998, AR007512, AR000007, AR015961, A58521, I63120, I60241, I60242, I03343, AR020969, AR054109, AR022240, A81878, A58524, E12615, AR035193, A92133, A24783, A24782, A58523, E14304, A27396, AR027100, I28266, I06859, A49045, E16678, A82653, E16636, AR038762, A93016, I25027, I26929, I44515, I26928, I26930, I26927, A58525, E13740, I49890, AR000006, I44516, A58526, A91753, AF156296, A10361, E06034, AF156294, A64081, A67220, U87250, A13038, A29289, AJ244004, D34614, AR008430, AR029417, A71435, AB012117, I13349, Z96142, A97211, A07699, E08322, I74623, A71440, V00745, AF156303, Y17188, A02712, X73004, AR028669, AR028668, AR028667, AR017908, AR028670, A68112, A68104, AR067733, AF118808, I62368, AR031488, I13521, AJ230933, A98467, AR029418, I52048, I44531, AR067734, A84746, I66495, I66494, A60109, A17115, A18079, AR028672, I66498, I66497, I66496, AR038066, I50882, I66486, I66487, I15353, I19516, A83643,

1986	HLJEA63	887857	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1569 of SEQ ID NO:1986, b is an integer of 15 to 1583, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1986, and where b is greater than or equal to a + 14.</p>	AR036903, A11245, A02710, A35536, A35537, A07700, A13392, A13393, I19517, A02135, A04663, A02136, A04664, E03165, A97155, A76773, A22413, D28584, A70040, I21869, I01992, AR066482, AJ244005, AR028564, A83151, I08051, I00081, I00074, A98420, A98423, A98432, A98436, A98417, A98427, A15078, Y11926, I03665, I03664, Y11923, I01968, A13388, E00974, A02228, E00954, E00952, E00953, E00955, I08049, I43960, AR021440, E02221, E01614, E13364, I08776, A10360, E02679, E02104, E02098, A92666, E02001, E01718, E02003, E02102, E03550, E02096, A28163, E02100, E01997, A58998, E02291, E02292, E02293, E01999, E02396, E02327, E01563, E02431, E01693, E01696, A92668, AR005163, AR005154, AR005157 AI148864, AW080794, AW170514, AW006431, AI832265, AI188759, AW001480, AW168034, AW129649, AA769641, AW172714, AI598083, AA552439, AI587171, AI151456, AA151778, AI684150, AI339143, AA621571, AI221080, AI279608, AI347951, AA512993, AW243807, AI471439, AA627704, AA973368, AI346482, AI050852, AA194025, AA410196, AI262321, AI829191, AI344709, AA808606, AA832492, AI984534, AA149786, AI189417, AI446633, AI828290, AA580361, AI206376, AI924092, T98835, AW273245, AI300760, AI271915, AA133687, AI074095, AA659629, AA450853, W07258, AI435798, AA976596, AA603691, AW292998, AI950654, AA875879, AI244806, N29871, AA948384, AA946812, AA862576, AI804146, AI982855, AA812251, AA888824, N79741, AI832503, AA133726, AA577501, AA297383, AI220826, AA297386, AA535896, H95187, W79526, AA287234, AW190388, AA631290, AA908173, R47933, AA872504, AA496489, AI301669, AA297379, AA427910, R69472, AW004671, AA284504, AA746077,
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1987	HWLOA40	887892	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 507 of SEQ ID NO:1987, b is an integer of 15 to 521, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1987, and where b is greater than or equal to a + 14.</p>	<p>AF079763, AL110221, I25048, AF162270, AL117648, L13297, AR000496, A93914, U39656, AF090900, I09499, AF182215, AL133560, AB031064, AR020905, AL133637, U92992, AF100931, X66862, AF054599, AL049938, AL133557, A93350, AL096744, AL050146, AF061981, A52563, X66366, AJ012755, AL080118, X61970, U75932, AF113694, E03348, AL133080, AF051325, U58996, X84990, E01314, AF118558, AL049452, AL133031, AF061573, AF124435, AF076464, AL050277, A65340, AL049283, I33391, AL137530, M30514, L30117, S82852, AL133075, AL137558, AL117440, AL049447, AL133067, AL133084, AL137557, AF118070, AL133640, AL117626, I26207, AF11851, A45787, AF106657, X98834, AF017437, A08908, AL049300, AL080146, E02349, AL137554, AL080074, AB007812, AL137529, Y09972, X57084, AL023657, X93495, AL137555, AL133049, A03736, AF104032, I68732, I00734, AL133559, AF090934, AF145233, AL049430, AF113699, AF162782</p>
1988	HCQCF10	887936	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	<p>AA298484, AA297176, AA297147, AW001287, AW300770, AI691072, AA563933, I95745</p> <p>W15466, AI862531, AI823607, D80998, AA115712, AA410501, H66313, W37614, AF131758</p>

			the general formula of a-b, where a is any integer between 1 to 332 of SEQ ID NO:1988, b is an integer of 15 to 346, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1988, and where b is greater than or equal to a + 14.	
1989	HAIBW90	887996	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 938 of SEQ ID NO:1989, b is an integer of 15 to 952, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1989, and where b is greater than or equal to a + 14.	<p>AI185821, AA481723, AA626700, AW367390, AA313767, AA195688, AA315033, AA479334, AA989012, AA479641, AA479335, AA165042, AI400160, AW370132, AI924188, AW015034, F06368, C15288, H89161, AA364967, AW262875, AI566873, AA371283, AI566669, AI864174, AA304171, AI337891, AA295611, AA363869, T34361, C16344, T35252, AA374955, C16080, AI758577, AA406614, AW131846, AI811351, T19059, AW087747, AA777509, AA934901, N40173, R46865, AW157527, AI374781, AI379523, H64413, AI371781, R78607, AW173107, AA532727, AI742506, AA195689, AA235284, AA363917, AI801399, AI081113, AA295789, AI742505, AI087379, AA527113, AA527036, AA373921, AI952545, AI269215, AI245243, AA302499, AI792601, AA600140, AI040546, H92421, C16267, AI805770, Z24901, AA625963, AI139790, AI360032, N40209, AI084568, D57610, AI753737, C16455, R35721, AA159931, AI024890, AI869836, AI829158, AI804015, AA477326, AA430365, AI640196, N30689, AI371005, AA478600, AA256968, AA021044, AA657967, AW072764, N41298, AA905154, AA758776, AI955815, AA865424, AI857650, AI091988, AW242058, H92638, AA234867, AI864141, AA252106, AA424350, AA302462, AI468749, AW090440, AI336687, AA732498, AA302463, C16184, R78608, AW085952, AI934133, AI269595, AI422703, F05286, R46768, C16334, AB006077, AF006484</p>

1990	H2CBE03	888041	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 592 of SEQ ID NO:1990, b is an integer of 15 to 606, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1990, and where b is greater than or equal to a + 14.</p>	AA307070, D80268, D80366, F13647, C14389, C06015, D80522, AA305578, C14227, AW369651, D50995, AW177440, D51022, D81026, C14331, D81111, D80391, D80248, D59787, AW178986, D58283, D59619, D80210, D80240, D50979, AA514188, D80195, AA305409, D80196, D59859, D80022, D80043, D80166, D59927, D59467, D51423, D51799, D80164, D59275, D80253, D80038, D80227, D59502, D80212, D81030, D80219, D51060, D80188, Z21582, AA514186, D59889, D80439, C15076, D59653, D80269, D59610, D57483, D80193, D80045, D80024, T03116, D80247, D80064, AW378533, D80378, D51759, D80241, C14014, T03269, AW178893, D80133, AW178906, D80302, D80168, C14407, D80157, AW360811, AW178759, D51103, C75259, AW378540, D80251, D80949, AW352120, AW377671, AW375405, C14298, AW179328, C05695, AW378532, D52291, D45260, AW366296, AW360817, T02974, AW179020, AW375406, T48593, AW378534, AW179332, AW377672, AW378528, AW179023, AW178905, AW352158, D51250, AW177731, AW178762, AW178754, AW179019, AW179024, D59373, C05763, D51213, AI557751, D80134, H67854, C03092, H67866, D80132, AA809122, AW179004, AW360834, T11417, D59627, AW177456, AW377676, AW352171, AW352170, AW178907, AW178908, AI525923, C14077, AW367950, AW378520, C14973, C14344, AI525917, D59317, D58246, D80258, AW179012, AW178980, D80014, AW177733, D59503, AW179018, AW178914, AW178774, C14046, D51221, D60010, D59474, AI557774, D58101, AI525920, AA514184, AW378525, AI535686, AW378543, AW178911, AW352163, C14957, AW178781, D59551, AI525227, D80228, AA285331, AW177728, AI525235, C16955, AI525912, AI525922, AI905856, D45273, AI525242, Z33452, AI525925, AI525237, AI525215, AA305720, AW378542, C13958,
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1991	HE9Q119	888051	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1083 of SEQ ID NO:1991, b is an integer of 15 to 1097, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1991, and where b is greater than or equal to a + 14.</p>	<p>H67858, T03048, AI525222, T02868, F13796, AW360855, Z30160, D31458, D51053, D79997, L76158, X95351, AJ132110, A84916, A62300, A62298, AR018138, AR008278, AF058696, AB028859, A82595, AR060385, I82448, AB002449, I50126, I50132, I50128, I50133, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, AR016514, X68127, A94995, AR060138, A45456, A26615, AR052274, AR066488, Y09669, A43192, A43190, AR038669, I14842, AR008443, AR066487, AR054175, D88547, A30438, Y17187, A63261, X82626, AR008277, AR008281, D50010, AR062872, A70867, AR016691, AR016690, U46128, AR016808, AR008408, AR025207, X64588, A64136, A68321, I79511, D13509, AR060133, I18367, AF123263</p> <p>AL043100, AL045367, AL042404, AA326785, R34387, AL042017, U82535, AB027132, U72497, AF098012, U82536, AF097999, AF098010, AF098011, AL050372</p>
1992	HJACE25	888063	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 889 of SEQ ID NO:1992, b is an integer of 15 to 903, where both a and b correspond to the positions of</p>	<p>AL110457, AA311008, AA732444, N40873, W95689, AW027795, AI521613, AI282709, AA313089, AI694158, N30086, AA278139, AI419081, AA767732, AI918715, D80391, D80196, AI282428, D59787, D51423, D80227, D59859, D51799, D80038, D80269, D80166, D80253, D59619, D80210, D80240, D58283, D80188, D80212, D81030, D57483, D80195, D59889, D80219, D59610, D80043, D59467, D59502, D59927, D80022, D80366, D59275, D80193, D80241, D80378,</p>

			<p>nucleotide residues shown in SEQ ID NO:1992, and where b is greater than or equal to a + 14.</p> <p>D80024, D50995, D50979, C75259, C14429, D80164, T03269, D80045, C14389, C14331, C15076, C14014, D51050, AA305409, AA352266, D80134, AW178893, D51250, C14227, D81026, D80949, D80268, F13647, D58253, AW178775, D51079, AW177440, D80168, D51022, D80522, D81111, AW179328, Z21582, AW352158, AW378532, AA305578, D59695, AW177501, D80251, AW177511, AW369651, AA557885, D52291, D80248, AI905856, AW178762, AA514188, C14298, D80064, AA514186, D80133, AW352117, D51097, AA285331, AW360811, AW378540, AW377671, C14407, AW375405, AW360844, AW360834, AW366296, D80439, D80132, AW360817, AW375406, AW378534, AW352171, AW179332, AW377672, AW179023, AW377676, AW178905, AW178754, AW179018, AW179024, AW179220, AW177505, T03116, AW360841, AW179020, D80302, AW178909, AW177456, AW352170, AW178906, AW177731, AW178907, AW179019, AW178971, D80247, AI557751, AW179004, AW179329, T02974, AW352174, AW179012, AW178980, D80014, AW177733, AW378528, AW178908, AW378543, T11417, D80157, AW179009, AW178914, AW378525, D51103, D51759, AW367967, AW178983, AW352120, D58246, AW177728, AW178774, AW178781, AW178911, AW352163, D58101, C06015, AI557774, T48593, AW378539, D80258, D59503, D51213, D59627, D45260, H67854, D50981, AW378533, AW367950, AW178986, AI525923, D45273, C03092, H67866, AA809122, AW177734, AI525917, Z33452, D59474, AI525920, D51221, D59317, C14344, C14973, AA514184, T03048, AA033512, AI525227, AI535686, AW179013, AW178759, D59551, AF080255, AF073771, A62298, A84916, A62300, AJ132110, X67155, AR018138, D89785, Y17188, A67220, A78862, D26022, A25909, D34614, D88547, AR025207, AR008278, X82626, AF058696, AB028859, AB012117, Y12724, X68127, A85396, AR066482,</p>
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1993	HMWIR85	888153	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2985 of SEQ ID NO:1993, b is an integer of 15 to 2999, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1993, and where b is greater than or equal to a + 14.</p>	AA195033, AW150723, AI805372, AI826894, AW245532, AW250255, AW269478, AI929681, AI814415, AI984552, AI081263, AW178616, AW352048, AW352014, AW250589, AW178530, AI688093, AW352019, AW178493, AW178640, AA861507, AW178500, AI146435, AW178537, AA514698, N51685, AW352042, AW352039, AW366094, AW352051, W44438, AW178535, AW178604, AI608989, AW178504, AW352041, AW352035, AA936386, AA573323, AW178641, AW178529, AI566475, AA928767, AI963685, AW178642, AA826410, AW178605, AA648798, AA250731, AW178506, AI360338, AA865431, AI342420, AI439684, AI351346, AI039102, AI355698, AI870134, AI308956, AI820041, AW178495, AA502283, AI015535, AI096589, AI683046, AI884370, AI473866, AW178634, AW178667, AA495743, AW178531, AW178614, AA196630, AA533557, AA122301, AI090332, N53164, AA024938, AW178637, AI370758, AW178536, AW366100, AI832020, AI859889, AI571925, AI274028, AA024855, AA206040, AA583100, AW178507, AW178533, AW178615, AI289830, AW352018, AA636082, AW178672, AI220039, AA654736, AI831555,

1994	HCRPV38	888254	Preferably excluded from the	<p>AW246444, AI080500, AW352027, AW366090, AA467947, AW178499, AA722956, N59119, AW366110, AW178511, AI289407, AA478574, AW366108, AW366085, AW178670, N93845, AA640678, N35617, AW366113, AA665800, AI971078, AW352022, AA482749, AW366082, T35187, AA187140, AA732528, AL040485, AI699027, AL048191, AL048192, AI357406, AI446512, AW366088, AI655160, AA478709, AW178516, AA759075, AW366107, AA313616, AA122275, AW178503, AI970947, AW130860, AI051515, AW366098, AA651674, AA211795, AA211028, AW366081, AW366095, R56468, H72835, AI300727, N58601, R56467, AA471174, AW366092, AA074578, AA173306, AI867698, R43285, AW366087, T36005, R17987, AI370429, H72389, Z25130, AA196912, AA494312, AW178538, F08926, AA313413, AA636095, AA173215, AL135270, AW352028, W44497, F11265, AI929035, AA828212, AI289815, AA456024, T85429, AA253435, W40299, AW178505, AW249489, AW178527, AA181660, T35188, AW178492, AA367321, AW178631, AA332841, Z41942, AW178633, AW178630, AI250164, AA922875, AI634989, T83973, T85838, Z28803, AW178644, T74206, H78935, H80408, T35534, T74205, F15248, H80409, AA471318, H71931, AW352024, AW352025, AI767357, AI915730, AA214391, W26819, N51783, T90953, T35336, H91061, AW351670, N56034, AW178526, T35316, F15255, R18867, AW352033, AI274653, AA092564, R43478, AA480524, R37293, AW366117, AA580662, AW178494, AA404508, R18915, AI587130, AW178674, W27395, T81825, AA258411, AA455384, AA370020, AW178518, AW366099, AA903360, AF046001, AC005899, AB013357, X74802, Z58362, Z62704, AA035153, AA195198, AA747754, AA878252</p>
				W68102, AA005326, AA447946, AA101751, W67683,

			<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 324 of SEQ ID NO:1994, b is an integer of 15 to 338, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1994, and where b is greater than or equal to a + 14.</p>	<p>AA889641, AF057172, Y11151, AP000351, AP000350, Z84718, AP000352, AF057173, L38503, D38556, D10026, U48419, U48420, X98056</p>
1995	HSRBB92	888402	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2332 of SEQ ID NO:1995, b is an integer of 15 to 2346, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1995, and where b is greater than or equal to a + 14.</p>	<p>AI992179, AW188159, AI926499, AI926498, AI763400, AI421095, AA862284, AI720384, AI869696, H38016, AA831687, AA307183, AI018137, AA486789, AA974505, AI090091, AA452882, AA884683, AI740894, AA432181, AA159901, AA918138, AA758089, AA974498, N21230, AA905692, AI123002, AI923636, AI361685, AA431160, AW188033, AA664029, AW366681, AI318079, AI015094, AI125440, N27905, AI239567, AI720492, N27509, W70189, AA129411, AA486964, AA047262, AA745630, AA962542, AA6222987, AA761345, AI476363, AW361963, AA165010, AA136547, AA826442, W27215, AA173158, AI358157, H53700, AW407265, AA953388, N21070, AA768158, R51769, AA515123, AA063525, R70834, AI220536, F37121, AA845912, AW407373, W22674, AI381262, R51770, R32559, W70062, H53699, Z40510, AA854028, AA214484, AA905868, T81857, AA831837, AI497849, AI936784, AI184454, H65537, W02660, W25730, AA908937, C02652, AA355806, AA883739, C03254, W23216, R91464, AA983747, F24286, AI091283, AA040178, AI221931, AA632020, AA680078, R70782, AW340183, N63460, R72023, AA214403, AI910370, AA359073, AA969208, AA977551, AI292225, AA993649, AI828995, Z44657, AA359273, AA057148,</p>

1996	HSYEA10	888523	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2007 of SEQ ID NO:1996, b is an integer of 15 to 2021, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1996, and where b is greater than or equal to a + 14.</p>	AA707548, AW340816, AA613385, D61871, H38242, H81487, AI218047, AI190091, AA453052, AW138451, AW294322, AW452108, AI766143, AW140098, AI832222, AW292106, AJ271408, AF132938, AF106798, AI133631, AR007449, U39643, AF094700 AI037890, AW003999, AI858060, AW084608, AI589010, AW304188, AW117854, AI038497, AI452673, AI743739, AI147810, AA181048, AA187507, AA081006, AA082736, AA187264, N94407, AA187361, AA181882, AI079886, AA181880, AA188249, AI445147, AI471432, W49496, AA100829, AA503656, AA081230, AA182826, W47343, AA182830, AA181134, AI085755, AA132297, AI076956, AI613182, AA081149, AA188049, AA186634, AI081490, AA186808, AI918426, AA186376, AA081282, AA082516, AA186389, AA081208, AA582862, AA147528, AA157628, AI082493, AI282835, N94510, W49497, AA181875, AA191501, AA083542, AA157752, W47445, AA101069, AA186754, AA081283, AA182682, AA186393, C06085, W39354, AI800644, AA157468, AA186973, AA374217, AA386155, W23960, T27821, AA083575, AI654536, AA308204, W52714, AA852603, AI270203, AA188296, AA852324, AA852602, AA143331, AW449628, AA083541, AA372360, AA158121, AA186524, AA304334, AI932880, AA187348, W60270, AA308786, AA188042, AA157416, T18504, AA143201, C02231, C02091, AA156273, AA157642, AA100067, W56826, W56827, AA514656, AW376428, W31070, AW376420, AI912469, X54925, X05231, I01070, AF148882, X54724, X58256, A47086, U78045, S75623, M17821, M15996, M17822, M17823, M16567, U78629, AJ002550, M25663, AR040773, AF023338 AW368993, AI638166, AW297766, AI041204, AL042348, AI478737, AI760185, AI830441, AI126299, AI217176, AI092924, AI799277,
1997	HE2CC22	888673	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>	

1998	HOUAC22	888708	<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1941 of SEQ ID NO:1997, b is an integer of 15 to 1955, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1997, and where b is greater than or equal to a + 14.</p>	<p>AI857759, AA993596, AI381442, AI620345, AI027099, AA743334, AI827435, AI138805, AA136171, AI285950, AI635387, AA664373, AI827427, AI015864, AI222122, AA843185, AA976953, AW021642, AI685358, AW195005, AI206601, AW023027, AW450169, R80985, AA813995, T78995, AA912496, AA926963, AW451943, AI249890, AW269181, AW026792, R68431, AA731014, AW074050, AA922059, AA757551, H12605, AA689507, W79832, AA412149, AW135157, AW071659, R49066, AA056573, AA278795, H91438, AI567760, H12655, AA804916, AA040923, AA721747, T78939, Z41658, AI767505, AA766306, AA987389, AI538809, R68430, R26542, AA056678, AA353814, H91332, R80785, R25352, AA361014, AA536104, AI699602, R57916, AA278600, AA040922, AB007949, X65024, D21089</p>
1999	HHECU01	888720	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1144 of SEQ ID NO:1998, b is an integer of 15 to 1158, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:1998, and where b is greater than or equal to a + 14.</p>	<p>AI821479, AI739517, AW082828, AA533173, AI198451, AA532999, AI821509, AI791624, U25936, AA315607, AI000331, AW139172, AA358875, AI125295, AI216275, AW005074</p>
				<p>AA853396, AC005041</p>

2000	H2LAP34	888783	correspond to the positions of nucleotide residues shown in SEQ ID NO:1999, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 464 of SEQ ID NO:2000, b is an integer of 15 to 478, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2000, and where b is greater than or equal to a + 14.	AA314278, AA315476, AA133008, AW301013, AA314092, AA386092, AA411572, AA427682, AA315987, U46281, W76038, W42816, AA314613, AA477668, H52355, C17482, AA477851, AA481359, R83104, AA410758, W02292, W79944, AA329443, R46315, W07627, AW366382, AA335138, R83126, AA302305, W19402, H27934, AA659027, AA411998, AA151635, AA366470, AA358810, AA053648, T49358, AA378171, R48529, AA159070, AA838273, T62103, AA429117, AA158752, AA134180, AW376226, AA149262, AA410673, U92985, AR065358
2001	HNAR08	888950	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1247 of SEQ ID NO:2001, b is an integer of 15 to 1261, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2001, and where b is greater than or equal to a + 14.	AW236102, AA218985, AA906740, AA737950, AA220991, AA926805, AA206111, AA206112, AI653195, AA865714, AA220997, AA968722, AA218991, AI962654, AI357043, AI652879, AI970161, AW025944, AA902285, AI655507, AW003483, AA902779, AI824839, AI917697, AI671508, AI962316, AA074560, AR040708, S52658, AR040709
2002	HWLWH6 6	889136	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1517 of SEQ ID NO:2002, b is an integer of 15 to 1531, where both a and b	AI694583, AA280341, AW369780, AI572844, AA968512, AI250884, AI798375, AI370669, AW181892, T06923, AW293265, AA947819, AA598509, AL035420, AL050030, AL022727, AC004129, AC005082

2003	HWLCJ12	889263	<p>correspond to the positions of nucleotide residues shown in SEQ ID NO:2002, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2319 of SEQ ID NO:2003, b is an integer of 15 to 2333, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2003, and where b is greater than or equal to a + 14.</p>	<p>AI632964, AA826324, C06338, AI547059, AA622862, AI890787, AA775044, AA621523, AA585439, Z28355, AI525556, AI541374, AA585453, AI535639, Z30131, AI546999, AI546855, AI541514, AI525316, AI541510, AI525306, AA585101, AI541523, AI557731, AA585434, AI541534, AI541365, AI526140, AI541509, AI546828, AI525431, AA585440, AI556967, AI526194, AI541017, C15189, AI540967, AI547039, AI557262, T11028, AI557807, AI541535, C16300, AI557799, AI541205, AI546945, D61254, R29445, AI541307, AI535813, AI557787, AI546899, AI557238, R28735, AL040510, AL040625, AL045817, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AI525653, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AI526180, AL043467, AL041159, AL045725, AL044186, AL041140, AL040193, AI557082, AI526196, AL044037, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL040332, AL040617, AL040553, AL045684, AL040745, AL040370, AL043677, AL046442, AL040839, AL041752, AL040149, AL043775, AL044165, AL043492, AL041602, AL045920, AL041278, AL038838, AL040253, AL044074, AL041635, AL045990, AL040458, AL044199, AL044187,</p>
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	AL040090, AL040263, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL046392, AI525320, AL041374, AL040052, AL043845, AL043537, AL039338, AL042135, AL044064, AL038983, AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL041577, AL044258, AL044201, AL046850, AL038532, AL040768, AL037727, T23985, AL040576, AL046994, AL040414, AL040571, AL046914, AI142134, AL045753, AL044274, AL079878, AL049018, D57491, AL040444, AL039744, AL045857, AL038822, AI541508, AL045671, AL046327, AJ239433, AL041168, AL049069, AI557796, AI546891, AL043444, AL041246, AL040472, AI546875, AI535660, AL040238, AL041955, AL041347, AL038761, AI541048, AL040075, AA585476, AA585356, AI540920, T23957, AI526184, C16305, T41289, AL080031, AI541013, AL045989, AI536138, AL046147, R29177, AI526073, T23888, AI557155, AI541345, AL042096, AL037436, AL044529, AI525328, AI526187, AL039643, AI525203, AL037435, AL039360, AI557808, AI541415, AL044125, AI557279, D55233, AI541390, AA174170, R29218, AL079852, T18597, AI525339, AI557802, AI525856, AL045211, AI541356, AI525321, AI526195, AI541346, AI541506, AR017907, A25909, I13349, AR062871, A91965, AR038855, I18895, AR062872, AR062873, AJ244004, A85395, A85476, AF082186, AJ244005, AJ244003, A20702, A43189, A43188, A20700, AR037157, X81969, I63120, A98767, A93963, A93964, A98420, A98432, A98436, A98417, A98427, Y16359, AR008429, AR038762, D78345, I44681, A86792, A93016, X83865, A84772, A84776, A84773, A84775, A84774, AR054109, AR067731, AR067732, A58522, A91750,

				AL8053, M28262, I15717, I15718, E03627, AJ244007, A58524, I49890, I48927, A58523, A02712, A77094, A77095, I84553, A81878, A95051, I84554, A18050, A23334, A75888, I70384, A64973, A60111, A23633, AR007512, I08396, I00682, A11623, A11624, E00609, E13740, A11178, E01007, A10361, A60212, A60209, A60210, A35536, A35537, A60211, A02135, A04663, A02136, A04664, I62368, I08395, I06859, AR043601, A11245, U94592, I03331, A02710, E12615, AR035193, E14304, A07700, A13392, A13393, AR031488, I13521, I52048, A27396, AR027100, I44531, I28266, I21869, I44516, A70040, E16678, A82653, E16636, A24783, A24782, A92133, A95117, A90655, AF149828, I01995, I08051, AR031566, I25027, I26929, I44515, I26928, I26930, I26927, I60241, I60242, E00697, A20699, E03813, I66482, AR009151, I66485, I66483, I66484, I66498, I66497, I66496, AR027099, I66487, I66486, AR038066, E00696, AR051652, AR051651, Y09813, Z32836, AJ230935, D50010, AJ230902, I66495, I66494, I05558, AJ230972, I66481, A83642, A83643, I66488, I66489, I66490, I66491, I66492, I66493, A83151, AJ230951, AJ231009, A22738, I08389, X07299, A70872, D13316, I19525, AR035975, AR035977, D13509, AB025273, I18302, AR051957, A70869, E12584, AR035974, AR035976, AR035978, AC005913, E17098, AJ231028, A91752, A22734, AR022273, AJ230867, AR064707, AR054723, A32110, AJ230845, I36244, AR051864, AF006072, X55486, AR051865, A06631, S60422, A62298, AR009152, AR050070, X82786, AJ231011, U87250, Z30183, A68112, A68104, A82595, A82593, I15353, AR063812, A24548, A24546, Y14219, AR027319, A91751, AR027318, A06419, A21892, A23997, A68114, A89633, A89634, A21895, A05160, A08030,

2004	HNGEF72	889299	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2385 of SEQ ID NO:2004, b is an integer of 15 to 2399, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2004, and where b is greater than or equal to a + 14.</p>	A20502, X87559, I05488, I61310, A60961, A60977, AR002333, A60985 AL044543, AI791864, AI792362, AI887776, AW118108, AA132199, AI110605, AI239787, AI806055, R71461, AA306731, AA034255, H53686, AI741660, H82553, N28450, AI452969, AA318128, C16668, H49190, AW043837, AA251931, AW051344, H43461, AI167640, AA001337, AA025373, AI082161, H27161, AA328744, AI203499, AA156782, U25759, AA303132, AI638569, AI052532, AA091675, R99679, AI278003, AI720617, AW051583, AA804776, AA319103, AW148694, AA029525, AW247858, AW021737, AI140193, AW055259, AA565273, AA642437, AI240825, AI248594, H72148, AA156851, AA573394, AA029460, AA359482, T50440, AA018596, AA214611, AA634569, AA725707, AA709248, AA536183, AW082332, AA361479, AA47253, AA447268, AA353770, AI567232, AA962385, AA709244, AA767996, AI766591, AI358947, C18192, C16865, AW193910, AW235731, AA707012, AW304793, AA352835, AI939507, R10615, AA382271, AI061368, R08159, AA669229, AI085658, T91022, AW206558, R86259, AI276029, AI561192, N74387, AA131938, N74439, AW439563, AA013432, AI753280, AI267829, AI189108, W04994, R28492, N52383, T85708, AL031769, AC007970, AL034426, AC005697, AC002065, AC008082, AC006010, AC009286, D87009, AC009241, A90827, Z92545, AC009399, AJ243211, AL022400, AC004460, AL021917, AC004382, AC006522, AC007270, Z99569, AC005323, AC006083, AC005681, AC007788, Z98751, AC005731, AC000085, AL031684, AC009396, Z97180, U40455, AL117351, AC006024, AL109954, AC009514, AC006500, AL132994, Z98172, AC002094, AC004553, AC004993, AC006153, AC005488, AL034347, AC003681, AL109654, U66083, AF109718, AC004844, AL031672,
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	AC006151, AJ006995, AC006518, U82672, AL078643, AL021878, Z98748, AC000100, AL023806, AL035409, AC007002, Z81009, AC002523, AC007967, U82696, AC006084, AC004875, AL133162, AL133216, AC004909, AC009300, AP000154, AP000012, AC002497, AC006007, AC006080, AC000055, AC010168, AL035534, Z86064, AC003046, Z82170, AC005006, AE000659, AC005157, Z83745, AL132776, AC006166, AC003086, AL109922, AC006957, AB023051, Z77853, AP000512, Z97206, Z77249, AL110292, AL136295, AL121756, AB026899, Z84478, AL022318, AC004006, AC006062, Z84486, AC004112, AP000500, AC006370, AC007786, Z95114, AB019440, AF064859, Z95115, AC007253, AC006484, AC006262, AL021408, AL021997, AL031683, Z84718, AP001068, AF064858, AC004948, AC006504, AC007785, AP000542, AC006366, AC004047, AP000351, AC006017, AJ011932, Z84814, AC011422, AP000350, AC005562, AJ011930, AL109985, AC005010, Z98949, AC008170, AC007151, AJ239321, Z98304, Z80361, AC010436, AC007030, Z95703, AC006118, Z72001, AL022160, AB003151, AP000688, Z83839, AC005534, AL034399, AF000573, AP000689, AC002386, AC003029, AC005228, AC005185, AC009946, AC007099, AL031662, Z75889, AL034421, AC004825, U80460, Z95152, AC006840, AC005870, AC007999, AE000658, AP000352, AC005886, AC005365, AL080317, AL132800, AC004385, Z84470, AC002449, AL008729, AL117339, AL023799, AC003082, AF205588, Z96050, AC007878, AL049766, AC005326, Z72004, AL035688, AC002485, Z99716, AL049813, AC004924, AC005066, AF090890, Z93931, AC007676, AL009028, Z72522, AC005145, AC004551, AL133249, AC005252, AF198098, AC005945, AC018633, U85198, AC004662, AC004474, AE000661, AC007751, AC004095, AC006036, AC009181, Z98753, AC006968,

2005	HKAEB46	889300	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1902 of SEQ ID NO:2005, b is an integer of 15 to 1916, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2005, and where b is greater than or equal to a + 14.</p>	AL031116, AL109748, AP000078, AC007455, AL031586, AC002349, AL022574, AC004872, AL031393, AC004452, Z99497, AL137624, AL079342, AB020871, AC006463, AC006984, AC006167, AC004389, AC004915, AB023050, AP000511, Z96774, AC002085 AI952777, AI346020, AW024883, AL046029, AI590661, AI346915, AW073186, AW237522, AL037668, AW151753, AI419538, AA399154, AI420960, AA971504, AI424070, AI983928, AI858710, AW264165, AI970601, AI422333, AA610484, AA481014, AA758319, AA486535, AI273879, AA865664, AA528037, AW440638, AI804913, AI094960, AI051129, AA975822, AW367514, AA043942, AI337380, AA470886, AA450210, AA737971, AA045559, AL037667, AA292222, AI914093, AW022153, AA620519, AA451613, AA252687, AA551664, C17369, AI953410, AI359851, AA045558, AA135778, D58604, AW402976, AI423638, AA486630, AI189228, AI003695, AW002772, R91050, AI261994, D63187, AI758843, AA728996, H02570, D78861, AI431974, T95753, AI768841, AW369981, AI374732, AA503361, AA298895, AI908249, AW392006, AA962314, AW392196, AW392074, N30487, AW392085, H52318, AA296893, AA303066, AW392190, W35300, AA031634, R76869, AA298088, T95752, AW391941, AI864825, Z45938, AA135734, N71976, AA296872, T84519, R76870, AA366382, T81251, AA041548, C18136, R32692, H02653, C16129, T10828, H52227, R34136, C17067, R23164, AW392168, R23163, AI687114, R63893, AW392170, R06245, AA031753, T99872, AW392082, AA976000, AA890237, R99970, AW238952, AI719088, AA365961, AA302997, H03271, AA894778, R06300, R91051, D20914, W32904, AI571626, AA719590, AW386001, AA931929, R68979, AB011145,
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				AR025393, AR025401, AR025424, AR025397, AR025407, AR025415, AR025421, AR025405, AR025404, AR025414, AR025423, AR025416, AR025417, AR025422, AR025402, AR025394, AR025400, AR025413, AR025403, AR025418, AR025412, AR025395, AR025410, AR025411, AR025409, AR025419, AR025396, AR025408, AR025399, AR025420, AR025398, AR025406
2006	HNHON23	889323	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1059 of SEQ ID NO:2006, b is an integer of 15 to 1073, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2006, and where b is greater than or equal to a + 14.</p>	<p>AA313697, AA397662, AI734131, AA428728, AI734102, AI741547, AA428294, AW274830, AA428330, AI732698, AI742282, AA428855, AW452415, AW246994, AI337011, AI650992, AA910985, AA934713, AW452736, AI685505, AW025662, Z38485, AA724506, AA703833, AA315349, AI653134, AC000378, AL080194</p>
2007	HSKES11	889368	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3697 of SEQ ID NO:2007, b is an integer of 15 to 3711, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2007, and where b is greater than or equal to a + 14.</p>	<p>AI125788, AI135619, AI683334, AA824310, AL135408, AA037216, AI972586, AI718476, AI829067, W58485, AA497128, AW051854, N28502, AL121373, AI922174, AA524333, AW084782, AW402881, AI199668, AI143639, AW327327, AI688325, N42979, AI333116, AI697771, AI243863, AI003784, AI084638, AI937411, N29140, AW269389, AA443395, AW001384, AI355311, AI139563, AI374602, AA424444, AW169876, AI335174, AI671042, AW327648, W24329, AI050862, AI628040, AA434140, AA082441, AI362701, AA884252, AI090258, W56128, AI081404, AA814863, W58450, AA814576, AI907488, AA461502, AA223732, N95448, AI184687, AI050684, AA447362, N21176, N27576, AW341550, AA497051, AI433749, AA311905, AA505594, AA329681, AI278163, AA780160,</p>

	AA570608, AA554137, AA223721, AW271217, AI801216, AI097355, AA885099, W69597, AA889841, AA908481, AI523739, AW381678, AI359091, AA478351, AI344719, N23344, AA468529, AA235290, AI095678, AA608996, AI189320, AI633706, AA683544, AA621614, AI857314, AI348508, AI085545, AI214611, AI625313, AA476237, AA494522, W07587, AA976842, AA478293, AA643766, W46184, N35630, N33492, AA526427, N24296, AW139045, N68146, H25621, AA424346, N42480, H61788, AA935087, AI121192, AI525659, AA580160, F19069, H61787, N20306, AI473380, AI187234, AA476236, AI766411, R83753, AI192735, AA223820, R64665, AI095388, AA316245, AW375464, H99696, AI814495, T91430, AI869777, AI750567, AI800050, AA737796, AW375583, F33001, AA402536, AI375909, R83603, N35954, AI458633, T35960, AI928703, AA460576, AA383262, C17066, F06682, W16735, AA223809, AA297837, AA876406, AA493346, AI000901, Z39693, T30460, AA961198, AA378551, AA984004, AI928185, N26259, H98726, T60304, N78786, AA482926, R45705, AA455905, AA374118, AA384020, H02406, AA456331, AI418099, AA724536, T92890, AA592933, AA995483, N90115, Z44200, AI962421, AA992353, N43882, H96512, R06697, T91342, W74107, F34857, W69410, AW139741, AA047633, Z19206, AA302221, AA374271, AI630403, AI928594, AA234873, AI135333, AA047532, AA788864, AI478732, H21536, AA318358, C02417, N66756, T61681, AW243518, C17661, Z25200, AA805109, R06557, AW050504, H21535, AA456371, AI302688, AW079809, AI080026, F04276, AA356174, N83368, AI564126, AW070903, AW004636, H26495, T92979, AW392175, AA206629, AJ251053, U14550, AC002429, AP000031, AL022336, AC005529, AC004106, AC005015, AF001549, AC003029,

	AC002045, AL031311, AL049830, AC004963, AP000501, Z82198, AC005702, AP000115, AL035089, AC005972, AC005921, AC004966, AC002404, AC006211, AL035415, Z98884, AC004953, AL024507, AC004837, AC002326, Z98200, AC005229, AC007263, AC005011, AF165926, AC005821, AL031283, AL022577, AL009031, Z98750, AJ010770, AC005988, U95740, AC007386, Z95152, AL022316, AC004990, AC008372, AC003070, AL031277, AL049780, AC006061, AC005049, AF117829, AC005081, AC002352, AC007358, U91322, AC005971, AL121603, Z93017, AC004623, AL049692, AC010170, AC002454, AC006115, AC007011, AL117339, AP000694, AL031591, AC006101, AC005482, Z84466, AC005544, AF001550, AC005538, AC007639, Z82206, AC005088, AL009183, AC005181, AC003982, AC003665, AC006120, AC007686, AF053356, AL049869, AJ010597, AC007371, AC006080, AC004887, AC002299, AC005274, AL049776, Z97054, AC006160, AC003044, AF227510, AL049694, AC005531, AC007036, AC006924, AC006130, AL117337, AP000557, AC009509, AC003971, AE000658, AC005208, AC005291, AJ229041, AL049589, AL022320, AC009464, AB016897, AP000555, AP000135, AC005288, AL096791, AC002563, AP000563, D87675, AP000512, U85195, AC007227, AL031276, AC005779, AC005066, U91326, Z84480, AL109952, AC007193, AC005527, AF205588, AC005295, AC020663, AC005046, AP000556, AC002430, AC007055, AC004859, AL034548, AL079304, AL009179, AC000085, AC003658, AC004882, AL031121, AC002316, AC004841, AL080243, Z93023, AC007052, Z95114, AP000210, AP000132, AC005620, AL008715, AC006409, AF045555, AL035249, AC007384, AC003101, AC005157, AC009247, AP000133, AP000211,

2008	HCETP05	889467	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 454 of SEQ ID NO:2008, b is an integer of 15 to 468, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2008, and where b is greater than or equal to a + 14.</p>	<p>AP000359, AC004905, AC005736, AF165142, AC007073, AC004802, AC004477, AJ229043, Z98036, AC002485, AL096817, AL133448, AP000553, AL049745, AC005207, AP000459, Z73358, AP000100, AC006013, AP000208, AL035587, AL121655, AC009516, AC005279, AP000961, AF196779, AL031588, AC006014, AC007786, AL121754, AC005519, AP000558, AP000704, AC002544, AC006948, AC004491, AP000247, AC006947, AC006515, AC006064, AC002477, AC008273, AL049839, Z84484, AC005874, AF134471, AC004552, AL021394, AC005839, AC005018, AC006417, AP000130, AC002375, AC002126, AC005520, AC006992, AC004066, AC005701, T52888, T52889, R06558, H24699, H25574, N92900, W07212, AA062814, AA424971, AA932152, AA992342, N46317, AA454682, F04980, F08711, AI245086, AI198097, AI423663, AI123150, AI190262</p>
2008	HCETP05	889467	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 454 of SEQ ID NO:2008, b is an integer of 15 to 468, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2008, and where b is greater than or equal to a + 14.</p>	<p>AW409600, AW370893, AW172635, H29357, H00126, AI688967, H23399, H15998, AA910184, R13385, AI635135, AA811899, AA768537, AA827197, AA152215, T33955, AA324892, H51900, AW015309, Z45802, AW138603, AW439297, AA281159, T31539, AI989451, AA311444, T33897, AA928259, AW362586, AL096745, AL133562, AB023205, AJ006417</p>
2009	HDHEA53	889494	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 825 of</p>	<p>AW162106, AI192344, AI564803, AI816163, AW157769, W30860, AW157220, AI686640, AI379866, AI917170, AA548108, AI581151, AA190572, AA479158, AI364132, AI827282, AI400087, AI271370, AA609367, AA236262, AI910788, AI148957, AA758679, AI392976, AA608963,</p>

2010	HCHAC08	889700	SEQ ID NO:2009, b is an integer of 15 to 839, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2009, and where b is greater than or equal to a + 14.	AA464601, AI634775, W07097, AI332514, AA253390, AA490370, H80788, AI024529, H21486, AI338291, N72328, AA193686, AA253494, AI240331, H20219, AA064633, AA664481, AA548109, R10906, R61486, AI970230, AI652083, AI654228, H75492, AA247266, N52829, AW139159, AA748177, R64411, H17572, AF065389, AF053455, AF121344
2010	HCHAC08	889700	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 799 of SEQ ID NO:2010, b is an integer of 15 to 813, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2010, and where b is greater than or equal to a + 14.	W87344, W87345, AI159814, AI743733, AI027553, AW001343, AI743223, AI804911, AW009182, N71072, AI034362, AA468381, AI168829, AA468421, AA860298, AA578670, AI027557, AI365637, AA618558, AI307591, AI033866, AA052982, AA937189, AI034209, W05444, AA612975, AA053475, AA468294, AI972035, AA612979, AW004657, N58184, AA782754, AI186935, T53519, AW016322, R27278, AA988007, AA579074, AA860739, AA612976, AW406518, AI422596, F25986, AA774165, N56542, AA864684, AA922471, AA468220, AI350544, AI950616, AI142741, AA706997, C21238, T53520, AA095378, AI673154, AI905956, AI660174, T24673, F36466, AI341288
2011	HACBT96	889782	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 980 of SEQ ID NO:2011, b is an integer of 15 to 994, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2011, and where b is greater than or equal to a + 14.	AI338644, AI745184, AI890849, AW079838, AW149663, AI634926, AI889135, AW026717, AW270045, AI857571, AI052517, AI004249, AI279282, AW089862, AI499010, AA581431, AA669174, AW129569, AW438690, AA830692, AA419072, AI624275, AA434407, AI597766, AI184077, AA565719, AA758787, AI183979, AW021522, AI862132, AA705896, AI090447, AA828220, AI190867, AA435546, AA568841, AI268376, AI092061, AI146792, AI268380, AA012947, AA700657, AI160133, W90656, AA618520, AA805610, AL043849, AA902677, AI276955, AI366145, AA394012, N74351, AA076429, N92748, N74405, AA830815, AA788867, W86234, AI131041, AI636459, AL043850, AI309739, AI346161,

			AI339715, AW105496, AI272886, AA017217, AA191502, AA677335, AA021588, AI418190, C75356, AI460073, WI7229, AA715095, AI348381, AW020236, AA548678, AL045358, AA669031, H81440, F25106, AA243179, H41079, AA433970, T03708, F37029, AA410613, AA923050, W67263, AI765605, AI354279, N89731, AA604066, AI186384, T55826, T28511, AI568300, R07512, AA862409, AI350206, R44871, H46869, H46287, AA857126, AI491735, AA687978, T74684, H75881, D25565, AA419133, AW188884, AA548866, AA305818, T26508, W86261, AI361932, AA995393, H66896, W67378, AI351723, R22493, R22441, F27665, AI245370, T74796, R53433, AA322407, T95777, AW384420, T92255, H75747, R12501, C21226, AI547271, R07565, AA326036, T74869, AI610783, T95776, AI261830, W19404, H42315, AA936763, AI907063, AW384409, AA384097, AA973381, R09900, AI865937, AA404250, AI907073, H43081, T72070, AA489164, H67138, AW264657, AA345444, T74921, AA404700, R08428, AA934685, AW392670, C04482, Z99396, AL119319, AL119497, AW384394, U46341, AW372827, AW363320, AL134531, AL119457, AL119443, AL119324, U46350, AL134920, AL119484, AL119363, AL119341, AL119391, AL119355, U46347, U46351, U46349, AL119483, AL134533, K03001, Y00109, X05409, AC003029, A93931, M20456, M26760, S80262, M54931, M20454, M20455, AF164120, AR060234, AB026436, U02317, AR066494, AR069079, AR054110, A81671
			AA744759, T08846, AA884477, R87614, R18692, AW362788, AW072169, AW408220, AA078623, AA227616, AA884352, AA868332, AI762571, AA535028, AI139078, AA077934, AI361426, AI359977, AW009454, AB033050, AB015330
2012	HTLEN01	889954	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1756 of SEQ ID NO:2012, b is an integer of

			15 to 1770, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2012, and where b is greater than or equal to a + 14.	
2013	HCROA43	889962	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 693 of SEQ ID NO:2013, b is an integer of 15 to 707, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2013, and where b is greater than or equal to a + 14.</p>	<p>AA878377, AW264482, AA528458, AI084502, AI086537, AA280756, AI524467, AA215387, AI909056, D20028, AI432571, T80449, C16437, AI474660, AA306817, AA636097, AA214516, R82222, AA995304, R39369, AA318653, R62525, AL045794, AL039924, AA969711, D51250, T24119, T24112, D80253, D80043, AW013814, D59787, AL037726, AL039629, AL039625, AL039648, AL038837, AL039074, AL039678, AL039108, AL039538, AL039564, AL039156, R39019, AL039659, AL039566, AL039509, D80219, AL038531, D59275, D80227, AL039109, AL040992, T80169, AL044530, AL039128, AL044407, AL038821, AL036973, AL045337, AL037051, AL045353, AL039386, AL039423, AL045341, AL042909, AL039410, AL043422, AL043445, AL038025, AL039150, AL036725, D80240, AA383146, R25163, AL043423, T02921, D80210, D51423, D80134, D59619, AL043441, R24660, D80391, D80193, T23947, H00069, D80196, C14227,</p>
2014	HSLJW05	889994	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2426 of SEQ ID NO:2014, b is an integer of 15 to 2440, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2014, and where b is greater than or equal to a + 14.</p>	

	AL039085, AL036196, D59927, AL037639, D80949, D80366, AL037615, AI535783, AW451070, D80168, AI535983, AL036767, AW452756, D81026, AL036117, T11051, D50995, C75259, C14014, AL037526, D80045, R47228, AL037104, AL036679, AI910647, AL036238, AL036924, AL037601, D59889, AI557751, AL038851, AL036733, C15076, AL036158, D80022, AL037027, T23659, AL036418, D80038, AL037082, D80195, AL037054, AL036765, D58283, D81030, T11417, D80188, AL037177, D59467, C14429, D51799, D80378, AL037081, AL036190, T03269, AL036998, AL037047, F13647, AL037643, AL036227, AW237857, T48598, AL036964, D50979, AL036207, D80522, AA514190, D80212, AL036132, AL036167, AW450376, AL037600, C14298, AL037178, AL036191, AA285331, D59502, Z21582, AL037679, D80164, D80269, D80166, AW129106, C14331, D59859, D59610, AL036152, D59695, D80241, Z25782, N71180, AL042628, AL079963, D80268, AL037124, AW071417, AL048425, AI525669, AI569616, D58253, AI468872, AI287326, D80024, AI802542, AL040243, Z99396, AL039086, AL036174, AL037021, AL036146, AI590118, AI591316, AI499285, AW129916, AI318280, AL043326, AI955906, AI932794, AI554245, AA225339, AI763414, D57483, D52291, AI541056, AW150578, AI538085, AI251205, AI308035, AI857296, AL045163, AI680498, AI288285, AI815855, AI687127, AI866573, AL135025, AL119791, AI269862, AL042382, AI866608, AI174394, AI612885, AL039276, AI340582, AI252023, AI364788, AI590120, AI627988, AI620284, AI280661, AI207510, AL121270, AW082113, AL042745, AI696626, AL121328, AW089572, AI433976, AI612913, AL045500, AI866770, AL022401, A85396, A25909, A85477, AR025207, X68127, A86792, A44171,

	A67220, I18371, AR062871, AR037157, AR017907, A84772, A84773, U87250, AR062872, A84776, A84775, AR062873, A84774, AR067731, A20702, A58522, A91750, AR067732, A43189, A43188, A20700, D34614, AR036905, AJ244003, A95051, A38214, A98767, A95117, I56772, I95540, AR018924, A95052, AR031374, AJ244004, A63067, A93963, A93964, A51047, A63064, A18053, A49700, AR018923, AR031375, A48774, I63120, A63072, AR043602, AR043603, A48775, AR043601, AR068507, A23334, A75888, I70384, AR068506, A18050, A60111, A23633, AR015960, A23998, AR000007, AR015961, AR007512, A58521, I60241, I60242, AR020969, I03343, AR054109, I06859, AR022240, A81878, A64081, A58524, E12615, A24783, AR035193, A24782, A58523, A92133, E14304, A27396, I28266, AR027100, AF118808, A49045, E16678, A82653, E16636, A93016, AB012117, I25027, Z96142, I26929, I44515, I26928, I26930, I26927, A58525, A02712, AR038762, X73004, V00745, I49890, AR000006, I19516, I44516, AJ230933, E13740, AR008430, Y11923, AR036903, A58526, E16590, A91753, A11245, A02710, A07700, A13393, A13392, I19517, A76773, A22413, I21869, I13349, Y17188, A35537, A35536, A97211, A02136, A04664, A02135, A04663, D28584, A51384, I01992, E03165, I08051, A70040, AF156296, AR066482, A92636, E02221, E01614, E13364, I00079, AF156294, Y11926, AF156303, AJ244005, A15078, AR035975, AR035974, AR035977, AR035976, AR035978, I00074, AR038286, I66495, I66498, I66497, I66496, I66494, I66486, I66487, I68636, I03665, I03664, E00523, I92483, I25041, D88984, D14548, A10361, I00077, I19525, AF156299, A91965, AF019720, S70644, I07429, E06034, A18722, D26022, X13220, AF156304, A91754,

2015	HTPGK74	890666	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3288 of SEQ ID NO:2015, b is an integer of 15 to 3302, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2015, and where b is greater than or equal to a + 14.</p>	<p>AR027069, A20701, A04710, A52326, AF096810, M32676, A97221, X58217, A62298, AF156302, A60957, I84554, A62300, I84553, S65373, A60968, S78798, AF096793, A60985, A60990, A60987, I69350, A84916, Z82022, D44443, AB007195, X15418, A80951, A10363, AR018138, AF156300, X73003, AF130655, I08250, AR028564, AR060673, AR060676, A49428, E04616, S68736, X67155, A08457, A08458, AJ132110, S69292, AL133640, A13038, A29289, I48979, A78862, D89785, I48978, I07888</p> <p>AI149400, AA846733, AI085373, AI246729, AI608911, AI923892, AI798918, AW303427, AI708285, AW080676, AI684195, AI587306, AW189579, AI354582, AW044409, AI922230, AI628502, AI888388, AI758885, AI619483, W52043, AW057673, AL037160, AI921372, AW304335, AI624382, AI819541, AW276527, AI554494, AI809216, AI923339, AI381549, AI015540, AI473800, AW104317, AI910909, AI471516, AI624577, AI141307, AA075786, AI807993, AI566219, AI589224, AL048943, AI620365, AW391429, W37101, AI346763, AW086487, AI457487, AA664049, AW440483, AI476665, W63597, AI254213, AA934370, AA678559, AI139553, AI346198, AI469784, AI244140, AI911889, AI625096, AW439282, AI038691, AA884808, AI798465, AA905923, AA075733, AW372900, AW385528, AW385522, AL119459, AI352172, AA587707, AA947323, AA732669, AA617672, AI282902, AA946660, AI342280, AW372893, AI589501, AI185284, N90643, AW363861, AI051922, AI963833, AA583025, AW372901, AI221733, AI922401, AA912170, N53176, AW363862, AA723556, AI824545, AI952654, AI087392, AI565591, AA931720, AI026053, AA838395, AI361077, W28135, AI025960,</p>
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	AI458833, W28630, AI539757, AA532831, AI272036, AW081101, AI254219, AI025959, N23305, W77991, AA771914, AA999740, AI369031, AI159744, AI084385, AA846191, AA721128, AA463497, AI375027, AI278750, AA767535, AA913244, AA649145, AA115785, AA904917, AI953598, AW004980, AI433221, AI167837, AA878628, AA725431, AI311013, AI358579, R19761, W39658, AA164801, W19891, W73947, AI955376, AA872844, W31941, N39129, AA305747, AA115312, AA115784, AA164725, AI188067, N34986, AA428266, AW166792, AI433490, W15420, W01233, N69119, N32684, AI828323, AA706584, AI269319, AA314773, R18888, AI174504, AI682818, AL079824, R69672, R78845, AI004984, R70849, AW192982, AI355460, AW363858, N95218, AW272360, H55826, R83098, AA605309, AI274482, AA934782, AA648856, W38889, AA706765, AA317376, AA115311, R70097, AA845329, H29717, H55818, R86911, AA305294, R94357, AI914666, AW373543, W21046, AI926759, C06443, H47177, W31393, T10966, H74049, H61903, N32148, R35482, AI565915, R86899, H71088, AA021144, H13058, AW009569, AI630631, AA336531, AA568673, D58749, AA366616, H79950, AW273124, AI311799, N58613, R27902, W37802, AA970031, AI914563, AA837334, N43747, R62232, W21095, AI557184, AW149966, AA091317, R81068, N95047, T70857, R22091, R62216, AI865964, AA341756, AI453140, AA366355, AI203756, H55923, R66061, T77140, AL134840, AI290392, R33973, R64607, X59408, X59405, AL035209, AR064386, A65266, M58050, AR063609, AI8585, AR063631, X59409, X59410, AR063630, X59407, X59406, AR063632, AR031710, AR066585, AR066587, D84105, S51940, D85750, E05680, D89756, D63811, D63848, D82076, U87922, U87921, E05681, U87920, U87915, U87923, U87918, U87917,

	U87916, U87914, U87919, AR066588, A18587, AF025482, AF025483, A18589, D78369, AR064389, S65879, Y07713, M73722, M73723, AL050149, AF090900, A18614, I89947, AL133560, AF113694, Y09972, Y11254, X70685, I48978, A08916, A08913, AL133640, AF090896, AL122110, A65341, AJ238278, AL117457, AF078844, AF177401, AL137550, AL110196, A03736, S61953, AL133557, AF146568, X82434, AF113699, AL133606, AL133080, AL050277, AL122093, I89931, AL137459, AL117460, I00734, AR011880, AF113690, AL122050, M73721, I48979, AL050116, E00617, E00717, E00778, AL133565, Y16645, AL133568, AL080124, AF100931, S78214, AF104032, AF090903, AF090934, AL049452, AF097996, AF125948, AF090943, U58996, AF008439, AL110280, A08910, E03348, AL137283, I49625, A08909, S68736, AL137521, AL137479, AF017437, E04233, AL096744, AL117583, AF113013, AL117435, AL050108, AL133113, U42766, AL080060, A77033, A77035, AL049430, I33392, E02349, M30514, U35846, AL049464, AL133016, AF057300, AF057299, X72889, AF158248, AL049314, AR020905, AF087943, AF017152, AF183393, L31396, AF026816, L31397, I26207, AR038854, A90832, AL133093, AL137271, AL122098, U80742, AF090901, AL050393, U91329, AB019565, AL122049, AF118094, AL137533, AF153205, AF113691, AL050146, AL080137, A08912, AL050092, AF111112, AL122123, AL137557, X84990, AF185576, X93495, U72620, AF113677, AL080074, AR059958, AL110221, AF113676, AL110225, AL050138, X65873, AF106862, AF091084, E07108, U68387, A12297, AL137463, AL122121, AF113019, AL133067, AL137526, AL049300, E05822, AJ000937, A07647, U00763, X63574, AF079765, AF061573, A58524, A58523, AL049938, AJ242859, AL137538, AL133075, AL117394, AL049466, AF113689,

				<p>AF067728, Y11587, AL133081, A93350, AF026124, Y14314, E02221, AF118064, X87582, AF079763, AL137527, AJ006417, AF081197, I03321, AL080159, A45787, AF061943, AR013797, AL049283, AL050024, AF118070, Z72491, Z82022, AL117585, AF125949, AF162270, T55602, T55684, T83368, T83513, T85655, R05955, R06061, R13220, R15276, R21850, R22036, R22364, R27810, R33367, R33366, R34281, R40303, R45180, R45180, R64594, R66060, R69585, R70795, R79334, R80960, H04294, H04562, H08121, H08122, H13150, H13266, H26621, H26673, H47087, R83039, R86755, H55819, H55827, H71875, H73487, H96583, H96704, N49329, N71908, N93708, W24984, W31430, W31986, N91238, AA021171, AA035032, AA035520, AA079896, AA079897, AA165060, AA164800, AA463544, AA225869, AA632555, AA689363, N84693, C01059, AA091046, AA091332, AA095049, AI023106, AI078656, F09037, F11374</p>
2016	HHGAB64	890698	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 365 of SEQ ID NO:2016, b is an integer of 15 to 379, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2016, and where b is greater than or equal to a + 14.</p>	<p>AA127776, AA206261, AA206263, AA281030, T67843, AA477584, AA325658, AA381036, R12107, AF022382, AL031295, L41668</p>
2017	HOSOR86	890753	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2042 of</p>	<p>AI341460, AW173384, AW055235, W39204, AI909118, AI909124, AW118938, AI689438, AI419443, AI801242, AW438695, AI123971, AA707755, N59864, AA974210, AW130020, AA489046, AW298736, AA768780, AI146982, AI093766, AA284319, AA907244, AA279581, AA983814, AI955386, N59886,</p>

			SEQ ID NO:2017, b is an integer of 15 to 2056, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2017, and where b is greater than or equal to a + 14.	AI535676, AI859864, AI498376, W01363, AI699807, AA824487, T86598, AA994605, AW044013, AA489144, T85108, AW271482, AA811658, AI631722, AW021293, R64514, T77559, AA736753, T77523, T86597, H44608, AI955411, N90263, H94626, AL119283, AL119309, AI909117, N77027, N79005, AW105078, N62828, AI334730, AI701272, T07505, AW376940, AW243861, AI909110, T84177, AC004227, AC004804, AL022153, AC006840, AC006197, AC008125, AC004822
2018	HE9RV77	890763	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1877 of SEQ ID NO:2018, b is an integer of 15 to 1891, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2018, and where b is greater than or equal to a + 14.	AW241738, AI554315, AW293947, AI763258, AI721194, AW043707, W67989, AW269975, AW025268, AI683778, AW183594, AW242994, AW015541, AA428411, AI312039, AA905967, AW274692, AI743918, AI632220, AA515764, AI018660, AA936423, N40512, AI913282, N36286, N42415, AA155820, AA155924, AA071299, W68001, AI799025, AI123370, AI184911, AA218950, AA173353, AL047892, AA526078, AI041007, N27838, N33441, AW168113, H64050, AI261230, AI347397, AA536165, AI569491, AW172624, AA781882, AI583725, AA149663, AA683414, AI539802, AI583700, AI445057, AI816810, AA176623, AI340128, AA375927, AA628568, AA434428, AA164797, R80702, AA445933, AI690654, H10573, AA179678, H15588, AI313391, AI538861, AI687194, AA167315, N25332, AW150559, W58766, H17389, AA164796, H82362, R41866, AI204281, AW301352, AW302888, F06348, AW271077, AA218953, AI223027, R41721, AI609973, AI336653, AA151878, H82258, N27072, AI805669, H99831, AI282274, T82232, AI086204, R80703, F07751, AA173300, T86068, H18079, AW169375, R11810, Z39244, T71190, R17172, R17252, N24523, AW302442, H99172, AI042623, N31444, H64001, H15531, AI872871, AI969736, AW026046, AA890413, R40959, R14564, AA102051, T81858, AA220917, D31565, U46380, AI277142, AA628822, F06639,

				AW004021, AI500444, H61486, AI962340, AI675481, AA860192, H87106, AI254025, F04003, AA166985, AA321073, AI557191, AI373103, AW072197, AI922171, AA091757, AI095771, AW264568, H10368, AW168889, AW276664, AA846587, AA506171, AA090327, AI218075, AA383806, AA220919, AA102050, H10369, AF133426, AF053453, AF043906, U84895, AL035608, AF053454, D16949, AI336283, AI633192
2019	HPRAJ70	890776	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3543 of SEQ ID NO:2019, b is an integer of 15 to 3557, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2019, and where b is greater than or equal to a + 14.	AI805082, AI432462, AW263421, AA135870, AA137165, AA298464, AA298471, AA298475, AA298489, AI362575, AA031604, AA313094, AA031360, AR009514, AF079864
2020	HBODK52	890801	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1585 of SEQ ID NO:2020, b is an integer of 15 to 1599, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2020, and where b is greater than or equal to a + 14.	AI554661, AW274259, AA3114190, AL120376, AI334374, AI274093, AI080270, AA883816, AA879435, AI475629, AI222322, AI432982, AA541454, AW265163, AA749031, AA307355, AA993688, AA298322, F24838, AI147394, AI864022, AA298719, AW002647, AI276250, AI142407, AA296879, F34528, AA249523, AA689493, AI808739, Z44194, AW139211, AL008582, AB035207, D64109, AL022393
2021	HARNK52	890820	Preferably excluded from the present invention are one or more polynucleotides comprising a	AW372332, AW372296, AW372303, AW392509, AW392497, AW392507, AW372464, AW392505, AW004891, AA101225, AW392512, AA102670,

2022	HTLHU22	890863	<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2579 of SEQ ID NO:2021, b is an integer of 15 to 2593, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2021, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1674 of SEQ ID NO:2022, b is an integer of 15 to 1688, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2022, and where b is greater than or equal to a + 14.</p>	<p>AA120821, U54597, AW182872, AI446810, AA298878, AA294978, AW392492, AA298897, U54599, AI903382, AA991253, U95367, I59650, U95368, AF009702, AF009697, AF009701, AF009700, AF009699, AF009695, AF009693, AF009694, AF009698, AF009696</p> <p>AW248608, AI654134, AW249047, AW027462, AI688329, AW136847, AA995019, AI867957, Z83847, Z82206</p>
2023	HWMBB2 9	890945	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2529 of SEQ ID NO:2023, b is an integer of 15 to 2543, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2023, and where b is greater than or equal to a + 14.</p>	<p>AL042015, AI760156, AI041208, AI675831, AA772287, AI761091, AA127766, AI189553, AI024414, AI680106, AA678819, AI338208, AI276652, AA069849, AI457552, AI005201, AA678586, AA918062, AA411763, AA037163, AA069802, H30857, AA703349, AA216712, AI266630, N23150, AI082636, AA827374, AA385301, AA411843, AI049637, N56802, AI125538, AA347097, T28624, N32729, AA146702, AA343535, AA375419, AW316863, N32133, AA385302, AA146719, AA669887, AA375420, AI867611, AW206128, AI630096, N95166, AA331777, Z24775, AA331778, F04253, AA318183, D51300, F04964, AA343617, AA194918, R41937, AA347119, AI524404, AA362621, AA402478, F00058, AW366370, C21140, R10662, AL079560, AA994433, AA218592,</p>

2024	HWLND63	891125	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 490 of SEQ ID NO:2024, b is an integer of 15 to 504, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2024, and where b is greater than or equal to a + 14.</p>	AA88498, AA371095, AI783880, AA293830, AA037059, U07343, U07418, U80054, U17850, U40971, U40978, U17857, U40975, U17854, U17849, U40970, U17851, U40972, U17839, U40960, U17856, U17847, U40977, U17852, U40968, U17841, U40973, U17844, U40976, U40962, U17855, U40965, U17846, U17840, U17848, U40969, U40961, U40967, U59883, U17842, U40963, U40964, U17843, U17853, U40974, S77856, U17845, U40966 AA361119, AI391643, S75038, S75037, E02518, E02516, M37721, E03981, AF010472, E03204, E03202, E03203, E03201, D29625, AR036183, M18683, E03205, I09286, U79523, M82845, E03428, AR036184, X59689, M25719, M25732, X59687, X59688, E02517, X59685, X59686, T47438, T49517, T40337, T41197, T94036, R31007, R52165, R54705, R59553, R59554, R64336, R65793, R66811, R67946, H09249, H13692, H13744, H14286, H20221, H24797, H25936, H25967, H27194, H27195, H27531, H28158, H30301, H42178, H39094, H43206, H43253, H43704, H43788, H43842, H44053, H44129, H46393, H47935, R83920, R87925, R87926, R89640, H56488, H56489, H84491, H93855, H95554, H96000, H96001, N29623, W20057, W56622, W56652, W73707, AA001437, AA001129, N91455, N91545, AA010455, AA012908, AA017259, AA017548, AA019579, AA021397, AA021267, AA031311, AA031448, AA054148, AA055244, AA055263, AA057094, AA079530, AA079578, AA086369, AA086477, AA086052, AA088887, AA088908, AA101239, AA112044, AA112875, AA113195, AA113785, AA121382, AA134323, AA134324, AA134404, AA134405, AA159956, AA159957, AA169782, AA179024, AA179789, AA190506, AA190992, AA191267, AA191540, AA193244, AA194300, AA194320, AA194750, AA194569, AA195818, AA196755,
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	AA197162, AA223624, AA235645, AA243301, AA250844, AA250903, AA250964, AA250940, AA459406, AA459418, AA459644, AA464185, AA464690, AA464779, AA427566, AA480355, AA483686, AA508610, AA513761, AA514432, AA515092, AA515572, AA533290, AA555236, AA557193, AA557435, AA558632, AA563928, F15660, F15723, F15909, F16089, F16376, F16546, F16798, F16863, F16967, F17260, F17364, F17412, F17509, F17552, F17561, F17566, F17588, AA583063, AA582179, AA583705, AA583809, AA583939, AA583973, AA587857, AA594803, AA604225, AA604384, AA610836, AA627361, AA635656, AA574051, AA577139, AA657777, AA657988, AA665180, AA737855, AA806213, AA827543, AA833831, AA856894, AA857063, AA865535, AA872104, AA873247, AA876266, AA917410, AA935997, AA961665, AA962483, AA968868, AA972526, AA974886, AA975454, AA976399, AA987883, AA948025, AI002503, AI074079, F18046, F18063, F18217, F18383, F18418, F18564, F18899, F18975, F19390, F19528, F19715, N84794, F17978, F17998, W28215, W73754, N89223, C02843, C02989, C03092, C03145, C03180, C03325, C03831, C03986, C04192, C04941, C05199, AA018964, AA063476, AA641390, AA642243, AA095945, AA096393, AA194324, AA206409, AA643334, AA654007, AA211715, AA213946, AA284988, AA284536, AA290829, AA291918, AA292000, AA293474, AA293062, AA293262, AA401909, F20245, F20441, F20482, F20840, F20860, F21515, AA411329, AA410818, AA456784, AA454513, AA459631, AA477102, AA477416, AA477746, AA477852, AA480115, AA481936, AA481469, AA496740, AA599776, AA628543, AA666379, AA456564, F21911, F21996, F22437, F22449,

				<p>F22724, AA719223, AA724815, AA725731, AA758587, AA771884, AA775241, AA779626, AA781570, AA781985, AA812572, AA845555, AA852940, AA852551, AA852552, AA889439, AA773167, AA994600, AA993537, AI025737, AI038538, AI040946, AI124097, D25663, T16240, F00827, F00386, F01041, F01120, F01124, F01135, F00308, F01259, F01267, AA772935, AI302665, AI318091, AI347597, AI361314, AI361315, AI361322, AI401660, AI423575, AI423596, AI128394, AI224046, AI144391, AI149311, AI625219, AI625399, AI192566, AI214910, AI658645, AI538037, AI342442, AI633128</p>
2025	HCROQ71	891264	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 766 of SEQ ID NO:2025, b is an integer of 15 to 780, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2025, and where b is greater than or equal to a + 14.</p>	<p>T08982, Z99396, AW392670, AW384394, AW372827, AL119363, AW363220, AL119443, AL119497, U46341, AL119319, AL119396, AL119457, AL119324, AL119483, AL119484, AL119341, AL119391, AL119355, AL119496, AL036418, AL038837, AL119335, U46350, AL119522, U46349, U46351, AL037051, AL036725, AA631969, AL042970, AL042965, U46347, AL134528, AL036858, AL119418, AL119444, U46346, AL134518, AL119399, AL042614, AL037205, AL039074, AL119439, AL036924, AL042544, AL038509, AL042975, AL119488, U46345, AL134538, AL042984, AL042551, AL134527, AL043029, AL042542, AL042450, AL037094, AL037526, AL037085, AL036196, AL037082, AL043019, AL037639, AL037077, AI142134, AL043003, AL036767, AL036190, AL036268, AL038520, AL038851, AL119464, AL038447, AL036774, AL036998, AL036733, AL037178, AL036238, AL037615, AL037027, AL036719, AL036765, AL036191, AL036679, AL036158, AC007073, A81671, AR060234, AR066494, AR023813, AR064707, AR069079, AR054110, AB026436</p>
2026	HBINP81	891305	Preferably excluded from the	<p>AI206965, AI955864, AI978772, AI952843,</p>

2027	HDLA89	891896	<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2507 of SEQ ID NO:2026, b is an integer of 15 to 2521, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2026, and where b is greater than or equal to a + 14.</p>	<p>AA910462, AA532931, AA551929, AI718392, AA573386, AW192987, AI749756, AA633326, AI341292, AA327208, AI572827, AI345905, N54395, AI631315, AI536146</p>
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2343 of SEQ ID NO:2027, b is an integer of 15 to 2357, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2027, and where b is greater than or equal to a + 14.</p>	<p>AW242220, AI742204, AA779774, AA765518, AI670838, AI494382, AI016035, AI499655, H98843, W01534, AA262799, AA992714, R99930, H60755, AA262783, AA836865, N23566, AA463579, AI880528, AA247461, AA206947, AA463519, H60756, H62890, AA365288, AW361065, AA465401, H62924, AI370666, AI926079, T09101, AA774976, R41293, N86838, AA465512, N71001, AA436909, AI004991, AI134524, AI380036, AI432644, AL119457, AL119324, AI119511, AL042544, AI432653, AL119399, AI431307, AI432666, AI623302, AI431316, AL045327, AI431323, R99751, AL042898, AL047163, AL043152, AW081103, AL042382, AL079794, AL043168, AI431238, AL042787, AL047675, AI431351, AL042729, AA585453, AL042853, AL079741, AL038878, AI432654, AI142134, AI433157, AI432656, AW151136, AI539771, AI537677, AI500659, AI815232, AI801325, AI500523, AI582932, AI284517, AI923989, AI500706, AI445237, AI491776, AW151138, AI521560, AI889189, AI500662, AI284509, AI889168, AI866573, AI633493, AI434256, AI805769, AI888661, AI284513, AI888118, AI859991, AI440252, AI432650, AL042488, AI872423, AI554821, AI494201, AI866786,</p>

	AI538885, AI431230, AI889147, AL041862, AL042515, AL045500, AL046356, AI433976, AI872300, AL042551, AW172723, AI440263, AL039390, AI371251, AI866510, AI436429, AI371228, AL040207, AI890907, AI860003, AI610557, AI866465, AI887499, AI431321, AI690946, AL045328, AI866469, AI521594, AI828574, AL048427, AL042538, AI537515, AL043089, AI275175, AL042745, AL043091, AI541056, AW151979, AI648567, AI620284, AI499463, AI582912, AI610362, AI538850, AI887775, AI623736, AI590043, AL045620, AI440239, AI492519, AI539800, AI923046, AI434242, AI500714, AI537273, AI355779, AI885949, AI581033, AI491710, AI436456, AI469775, AI963846, AI567940, AI817244, AI242736, AI612913, AW022682, AI539781, AI671642, AI285826, AI539707, AI863014, AI499512, AI889133, AW089557, AI559957, AL046681, AI521571, AI432677, AI610357, AL042377, AI434223, AI366900, AI610429, AI539632, AI889148, AI539847, AL042939, AI567935, AI805762, Z98465, AI561170, AI702065, AI354998, AL047422, AL045891, AI344785, AI866608, AI285439, AI866820, AI866581, AI815150, AI610402, AW172745, AI289791, AL043239, AI433968, AI567953, AI446495, AW403717, AL048656, AI866461, AL047092, AA420758, AI521465, AL043321, AL039276, AI371265, AI049851, AI274759, AI866457, AI285419, AI927233, AI567993, AI431315, AI654276, AI628850, AW118237, AW191003, AI828583, AI539863, AW162194, AI364788, AL045163, AL110306, AL048323, AI521596, AI929108, AI554827, AW197139, Y17793, A93016, AR066494, A58524, A58523, AL137429, U77594,

AF090901, AL133049, AL050116, AF091512, E05822, Y11587, AL122049, A08916, AL137539, L10353, I48978, A08910, A08909, AF100931, AC004883, AF019249, AF182215, E07108, AC004227, I89947, A08913, AF113694, AJ000937, AL117583, U35846, AL122110, I89931, AF118090, AL080124, AF111112, I49625, X65873, AL050108, X89102, AB030279, D16301, AL137271, AL137521, AL122093, AR038854, AL137557, AL049314, U53505, AL133072, AL133565, AF118070, AL122050, I48979, AF090896, AF100781, Z72491, AL137538, Z37987, X83508, A65341, AF113676, AF158248, AF177401, S68736, AL133113, I00734, Y11254, AJ238278, Y09972, E00617, E00717, E00778, I26207, AF097996, AL133080, AL137459, AC006840, AF102578, E01573, E02319, E07361, A57389, AL049430, A90832, A93350, AF090903, AL117457, AL050155, AC000400, AL080060, Y16645, AC004987, AL080158, AL122098, AL133557, AL137529, Y07905, AL133560, AL137463, AF109906, AF119337, AF091084, AF017437, AF118094, AL049283, A08908, I33392, AL049452, AF106827, AL117585, AL110221, A08912, U80742, U87620, U75932, AB019565, U00763, I03321, AL133053, S78214, AF104032, AL049466, AF111851, U68233, I92592, AF017152, AL035458, AL133077, E15569, U78525, AL117435, AL122123, AL110159, AF003737, AF113019, AL137283, AF113677, AR038969, AL110196, AF087943, AF176651, AL050146, AL137658, AL133640, AL133606, AF113013, AR011880, AL049464, AF078844, AF113690, A18777, AL034417, A77033, A77035, AL049382, AF125949, AL096744, AR034821, A03736, AL122121, U72620, AF081195, AF111849, Y10655, X82434, AF090934, AF090943, AF118064, AL080159, X70685, U42766, U58996, Z82022, AC006313, AJ242859, AF183393, AL050149, AL110225,

2028	HE8FL95	892113	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1769 of SEQ ID NO:2028, b is an integer of 15 to 1783, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2028, and where b is greater than or equal to a + 14.</p>	<p>AL122118, AF106862, U88966, AF026816, A18788, AL050277, AF067790, AL133637, AL050024, E02349, AL110197, AL137648, AL117460, AF026124, AL137550, AF090900, AF125948, AF039138, AF039137, AL133014, AL117394, A12297, AL133031, AF079765, X63574, X96540, AL110280, X98834, AR020905, AL137556, I09360, AL133093, AF067728, AF113699, AL137560, I42402, L31396, AL133568, AL137488, AL050138, AL050393, L31397, U91329, AJ012755, AC006039, I89934, X52034, AF126247, X84990, AL080127, AL133075, AJ003118, AL080137, AL137527, AB029065, AF113691, AF061943, AL137476, S75997, X94372, AR013797</p> <p>AA195218, AA397579, AA399552, AA621184, AI692940, AA205886, AI702167, AI365354, AF090947</p>
2029	HHFGI59	892177	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4317 of SEQ ID NO:2029, b is an integer of 15 to 4331, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2029, and where b is greater</p>	<p>AW207619, AA534290, AW340566, AW139543, AA947281, AA776464, AI697902, AA037301, AA205320, AA443876, AI206904, AA400700, T75075, AI363369, W46782, H24404, AI032106, AI880884, N59387, AI138757, AA307337, AA554317, AI359282, N28440, AW007847, AA662978, AI129939, AA476728, AI017751, AI431939, AI675507, AA953932, AI625227, AI991609, H23505, H18538, N77075, AI928411, AI206609, AA005130, F13039, Z39279, AA282393, F02661, AI635585, AA024899, R80487, T77003, AI040191, AI363366, H14797, H68321,</p>

			than or equal to a + 14.	AA024900, R83449, AI249693, Z42220, AI560382, AI564770, AI301618, Z43207, R80381, AA206751, F06352, W93287, R40397, T87366, AI767771, AI094857, F02642, AA970085, AI942231, F06371, AA309597, F12724, R02736, W93286, T89999, W32125, Z43926, T82305, T78880, H23497, Z45760, Z45415, F10631, AI365308, R02735, T82820, Z39986, N50637, T99449, W31631, AW438395, AA331899, AA307511, AW363028, AA296346, AI081008, F01749, W46783, AA005415, AA485147, AA400655, F07384, T98853, R13009, AW169922, H14798, AA218742, AI827798, N59001, AI261716, H18430, R13181, AI673745, F03625, N54124, AI023953, AW316878, D80045, F11062, AA581647, AI587242, AI382497, D59502, AA485032, C14389, C14429, D58283, D81030, D80195, D80043, D80227, C14331, D80188, D80038, D51423, D59619, D80210, D51799, D80391, D80240, D80253, T03269, D80166, D80193, D80196, D80269, D59927, D59859, D80219, D50979, D80212, D59275, D57483, D59610, D59889, D80022, Z21582, D80378, D80366, D80164, D80241, D59787, D50995, AI905856, D80024, C15076, D59467, C75259, C14014, D51060, AA305409, AW366296, D80134, AW178893, D51250, D81026, F13647, AI557751, D80268, AA305578, D80248, D51079, D51022, AW179328, AW177440, AW178775, AW375405, D58253, AW378532, D80949, D80522, D80168, C14407, C14227, AW352158, D81111, D59695, AI910186, D80251, D52291, AA514188, AW369651, AW178762, AW177501, AW177511, D51097, AA514186, D80133, AW360811, C14298, D80064, AA285331, AW375406, AW352117, C05695, AW176467, AW378540, AW377671, AW360834, AW360844, AW360817, AW378534, AW179332, AW377672, AW179023, AW178905, T11417, D80302, T48593, D80132, AW177505, AW352171, D80439, AW377676,
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2030	HOFMT75	892291	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1220 of SEQ ID NO:2030, b is an integer of 15 to 1234, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2030, and where b is greater than or equal to a + 14.</p>	<p>AL036113, AA433879, AL045190, AA057554, AW239170, AW403966, AW239410, AW402407, AW375966, AW373031, N20475, AW067770, AW179034, AA410697, AA074710, AI752785, AW068103, H10878, AI869324, AW067904, AI751896, R87863, AA603295, R56461, W86435, AW068684, R88501, N25503, AI909381, M78217, AA852669, R87623, R87854, F05545, AA933040, AW372168, H14144, H86162, AA018954, AA410887, AA057207, AA362685, R84663, AI868439, AA326537, AA018988, T87278, H01627, AI910320, AA295291, R85200, R88022, AA430421, R85220, AW388463, R85353, AA335125, AW062970, R85031, AA293682, AA292982, AA368515, AW176608, AW062971, AA852517, H72226, AW393764, W02259, R99954, H27662, R24815, T99262, H52007, M11233, X05344, X52886, X53337, M63134, M63138, M63136, M63135, S52557, S74689, L12980, X68382, M63137</p>

2031	HWLEQ37	892367	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1075 of SEQ ID NO:2031, b is an integer of 15 to 1089, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2031, and where b is greater than or equal to a + 14.</p>	<p>AI884627, AW130437, AI668781, AL043335, AI907430, AI613418, AW150279, AI205012, AI038777, AA709407, AI690430, T35506, AI022430, AI023459, AI476713, AI671575, D29621, T34271, AW419081, AI261913, N32030, AA377446, AI912514, AA034072, AI053445, AI828656, AA533408, AI038724, AL042113, AI370475, AA569743, AI623899, AL135698, AI283090, AW272763, AI868164, AA633266, F17700, H57826, AI633185, AL045709, AA713674, AA360944, AA716755, AW088125, AA297968, AA659324, AI252506, AB020865, AC005940, AP000694, Z99755, AP000557, AL035587, AC004701, AC006965, AC005768, AC006211, Z98950, AC005152, Z85996, AF051976, AL109963, AC007934, AC005339, AF053356, AC006116, AL031281, AC005755, Z69917, AC005599, AC003101, AL050308, AL096791, AC005288, AL132992, AC004472, AL022326, AC004386, AL021368, AP000073, AP000512, AC004148, AL009181, AF196971, X55448, AC002527, AC005821, Z99714, AC006387, AC002375, AC006547, AC005041, AC006285, AC002347, AC002045, AC002418, AC003010, AC005520, AP000248, AC005192, AC005225, AP000346, AF001549, AC006480, Z93017, AC005899, AL096801, AL096817, AC003982, AL121652, AC005189, AC005968, AC005212, AL035683, AL049829, AF196779, AL022320, L44140, AC005971, AL022721, AC005701, Z85987, AL133448, AL109865, AL031055, AC004236, AC000097, AC006026, AC004682, AC004894, AC005015, Z99716, AC001228, AL133245, AL035400, AB023049, AL031286, AP000279, AC004797, AC007226, AL139054, AP000260, AL034429, AF111168, AB023050, Z95116, AC007284, AC006046, AL034402, AL117344, U91325, AL121655, AC008101, AC004638, Z86090, AC004526, AC002073, AP000038, AP000106,</p>
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2032	HWLDZ74	892558	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 969 of SEQ ID NO:2032, b is an integer of 15 to 983, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2032, and where b is greater than or equal to a + 14.</p>	<p>AC005740, Z95331, AP000194, AC002996, AL049869, AC005531, AC006556, AP000114, AP000046, AP000099, AC016025, AC004890, AC004024, AC005081, AP000043, AC003950, AC007688, AL035415, AC005914, AC001050, AC007458, U95742, AC004832, AC005154, AF205588, AC005221, AC002477, AC016830, Z94044, AC006146, AC004019, AC006077, AL117330, AL035089, AC009516, AP000036, AC006023, AC002400, AB000882, AC004020, AC004821, AC004814, AL132777, AL031311, AL117337, AC006064, L78810, AP000556, AC004699, Z84466, AC005332, AL109627, AL121653, Z93244, AC005969, AL022312, AC006958, AC005484, AL035455, AP000050, AL049635, AC003051, AC005488, AC006040, AC005562, AL133163, AC003029, AC004815, AC007637, AC005037, AC006160, AF196969, AC005585</p>
2033	HPJEB77	892563	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 708 of SEQ ID NO:2033, b is an integer of</p>	<p>AA337226, AI963222, AA336474, AI709289, AL079710, AI333306, AI095635, AI148461, AA593438, AA460382, N99226, F35658, F28539, AI674747, AI263147, AI689623, AI703331, AI304941, H46234, AA634465, AA336555, AA337527, AC004150, AC006024, AC006116, AC006539, U82672, AC005592, AC007204, Z98747, AC006271, AC004045, AC007993, AF146191, Z54951, AC007284</p> <p>H09290, AA806214, AA427513, AI904853, AA126879, AI910856, AW015950, AA134019, AA292157, AC009514</p>

2034	HNTST71	892820	15 to 722, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2033, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 541 of SEQ ID NO:2034, b is an integer of 15 to 555, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2034, and where b is greater than or equal to a + 14.	W93943	
2035	HCQDQ92	893223	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1070 of SEQ ID NO:2035, b is an integer of 15 to 1084, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2035, and where b is greater than or equal to a + 14.	AA641005, AI762083, AI587618, AA143709, AW299688, AA524042, AI686577, AA143723, AA534417, AW000937, AI924527, AI924182, AA143746, AI478257, AW338896, AA999953, AI625051, AI417467, AA125991, AA233660, AA233546, AA612904, AA826318, AI597567, AA906335, AA143761, AA126071, AI873680, AI380837, AA056595, AA862082, AI910769, AI380247, AA411502, AA328454, AI927431, AA481473, AI368169, AA434336, AI002848, AA056638, AW177469, AW177487, AI829000, AA468833, U54603, AI916081, AW352026, AW365560, C00614, AW178439, AW292063, AW177675, AF216312, E13203	
2036	HWLCU24	893457	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a	AA479821, AA432116, AI571125, AW016789, AI888160, AI991410, AI277106, AI431499, AA938157, AI422352, C06416, AI051837, AA425359, W63640, AA479700, T66755, AW235659, AI978666, AI765490, AL121547, H61675, T93682, AA427558,	

		<p>is any integer between 1 to 331 of SEQ ID NO:2036, b is an integer of 15 to 345, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2036, and where b is greater than or equal to a + 14.</p>	D52448, H49249, N54156, AA836066, AL043731, AA682248, AI887332, AI476215, AI207979, AI954997, AI954988, AI589450, AA609914, AI912009, AI218832, AI951761, AA609757, R77260, R60869, AI460050, AW058594, AW300537, AA782792, AA458911, N26791, AA708893, AI168124, W74653, AI148331, AA188960, AI114875, AI915018, AI598035, T05685, AW168412, AA454639, AA086016, AI745505, AA676964, H01261, AA129320, AA456251, AI653352, AA890006, AI096408, AW170047, AI247405, AI263393, AI081330, AI379150, AW015475, AA342341, H95038, AI814630, R08763, AI382384, AI273553, AI748817, N47474, AC005062, AF071240, AC005204, D37888, AF001893, AC005839, U46840, AC005082, AJ249224, X87116, D37887, Z97054, Y09257, X96585, AL033530, AC008109, AF175325, E15279, Z84484, AC005992, AC007298, M33644, AC007917, AC004467, AL078630, AC006115, AC005670, AC007461, AC000117, AL022401, X57080, AC007216, AC018769, AC009946, AL049543, AC005483, X79482, AJ388050, AC005884, Z93942, U09051, AC006112, AC002543, AF154112, AC004903, AF112374, AC006989, AF227510, AL109753, AC006075, Z83818, AB020867, AP000547, M28552, AC006455, AL022069, AC002467, AC005061, AC007437, AC004659, AC007239, AF131217, X52507, AC006151, X59370, Z83745, AC006196, AL078581, AC004001, X52617, A79336, U08407, AC005938, Z97180, AC004620, AC004533, AC006992, AP000459, AC002454, AC004849, AC006374, AL024506, AF178030, AL117338, AL109847, AC007320, M27933, AB017353, Z98043, AC005502, AL031177, Z96253, AF146793, AL049588, AF130342, AC012152, AC006324, U94853, AL035530, AF185591, AC004035, AL049635, I66426, AC003993, AL008723, AF001905, U85195, AF165142, AC004492, AP000696, AC009300,
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2037	HSDJY15	893827	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1200 of SEQ ID NO:2037, b is an integer of 15 to 1214, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2037, and where b is greater than or equal to a + 14.	AI133205, AL037682, AI114520, AI064817, AL036965, AL037211, AI207400, AI174949, AI174789, AA661919, AI174746, AL037212, AI133183, AW131769, AA826080, AI133103, AI064872, AL047790, AL037712, AI133447, AI557213, AA196323, AI557510, AI708887, AI064799, AI557501, AA639310, AA618404, AA130931, AA528236, AA176793, AA468368, AA643792, AI720756, C18264, AA149472, AL036525, AA176099, AA723030, AA533271, AA730806, AA814574, AA524681, AA155674, AI133076, AA211175, AI735145, AA176952, AA130534, AA526147, AA115162, AA293175, AI734894, AA188082, AA888633, AI954154, AL046874, AI253288, AA456356, AA487686, AA641711, AA468936, C17903, AA657662, AA613948, AI557378, AA069837, AI832615, AA149557, AA188546, AA535388, AI707485, AI031781, AA876497, AW270369, AI708877, AA493596, AA211174, AA143743, AI557052, AI986169, AI978768, AI253289, AI872466, AA180918, AA937682, AA070665, AA533010, AI453086, AA583899, AA885561, AI205258, AI133019, AA610163, AI613175, AI535649, AA469011, AA151710,

	AA578931, AA502034, AA653010, AI453374, AA088752, AI564738, AA513214, AI812066, AI718381, AI057631, AA552282, AI862343, AA879175, AA579454, AI133109, AI625924, AI569517, AI880251, AA522574, AA130876, AA100886, AI267882, AA074099, AI242732, AI523331, AA947056, AI799288, AI041459, AI499399, AA086434, AL047605, AA101240, AI926578, AW151535, AI921645, AI735153, AI889237, AA197115, AI719836, AI610718, AI832704, AA669697, AA857010, AA468008, AI801089, AA935460, AI749770, AI635150, AI670796, AA856914, AI147985, AA652921, AI630885, AI707630, AA536131, AI269472, AI475977, AA659428, AA533389, AA602791, AI124539, AI273169, AI253340, AI801192, AI720378, AI749886, AI217009, AA603147, AI697158, AI720483, AA661870, AI091584, AI832890, AA394073, AI214988, AI253350, AA618229, AA081105, AW276922, AI366469, AA566063, AI557420, AI750108, AA575849, AA829092, AI459667, AI917999, AI216206, AL047639, AI720230, AI494209, AA469210, AA468066, AA744189, AW071131, AA586683, AA506661, AA658333, AA193059, AA486739, AA074102, AA603867, AA757697, AI199984, AA618302, CI7416, AA771977, AA526043, AI720323, AA502487, AI469695, AI080487, AI720329, AI721040, AI832984, AA533449, AI832445, AI832524, AI460107, AI366465, AI459785, AA226422, AA563955, AI748972, AA095036, AA211188, AI720479, AA708210, AA485747, AA600898, AI832459, AA174120, AW166854, AA192955, AI688903, CI8862, AA775370, AI031761, AA650170, AW152114, AA548147, AA545759, AW073702, AI525138, AA187609, AI888829,

2038	HSAAR81	893842	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 442 of SEQ ID NO:2038, b is an integer of 15 to 456, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2038, and where b is greater than or equal to a + 14.</p>	<p>AI250266, AI366365, AI572029, AA578760, AA876982, AI580012, X62996, V00662, J01415, D38112, X93334, U09500, X93339, D38116, X93338, X93335, D38113, X93347, D38115, X97707, U38274, AJ010581, AJ010580, AJ010582, AJ010583, Y13303, U38263, Y13302, Y13305, Y13304, AF081052, AJ010559, AJ010558, AF081049, AF088927, AI635278, AI174861, AA373755, AI250672, AI075000, AW073879</p>
2039	HNDAD16	893866	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 580 of SEQ ID NO:2039, b is an integer of 15 to 594, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2039, and where b is greater than or equal to a + 14.</p>	<p>W95642, AW167728, AA716097, AI281282, AA552443, AI143630, AI332337, AA315762, AA953818, AI346752, AA974853, AA631397, AA632754, AA552321, AI762067, AI748945, AA337636, AA614535, W60395, AA507878, AI973218, AA580138, AA345906, AA633399, W32686, AI474125, AA554791, N74131, AA808607, AI983974, W60304, AA384262, AA319354, AW265199, AA327250, W20434, AI985964, AA336734, AI350070, AA384635, AA337338, AA327500, W81242, AA327340, AA327546, W81706, AA327502, AA327154, AI460270, AI459674, AA029583, AI187009, AI832569, AW364159, AI183698, AA468623, AA928702, AW176584, AI973212, AI749833, T29881, D25724, AA314975, AA029584, W95644, AA574221, I95749, L15203, L08044, U25654, U25656</p>
2040	HCNSE58	893867	<p>Preferably excluded from the</p>	<p>AI281282, AI143630, AA315762, AA552443,</p>

			<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 639 of SEQ ID NO:2040, b is an integer of 15 to 653, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2040, and where b is greater than or equal to a + 14.</p>	AA974853, AW167728, AA716097, AI332337, AI346752, AA953818, AI748945, AA631397, AA808607, AA580138, AA507878, AA614535, AA552321, AI762067, W60395, W32686, AA632754, W60304, AI983974, AI973218, AA633399, AI985964, AA554791, AA314975, N74131, W20434, AI350070, AA337636, W81242, AI832569, W81706, AI183698, AA468623, AI459674, AI749833, AI460270, AA928702, AI187009, AW364159, W95642, T29881, AA345906, AI474125, AI973212, AW265199, D25724, AA384635, AA384262, AA327250, AA336734, AI561269, AA327500, AA327546, AA574221, AA327340, AA029584, AA327502, AI699171, AW176584, AA327154, AA532852, AW188590, AA558976, AI560870, AI749877, AA319354, AW007096, W95643, AA337338, AA384655, AA029583, W95644, AW392670, AW291863, Z99396, AL119319, AL037205, AL119401, AW372827, U46350, AW363220, AW384394, AL119439, AL119484, AL119391, AL119324, AL119522, AL119457, U46347, U46351, AL119483, AL119418, L15203, I95749, L08044, U25657, U25656, U25654, AR060234, AR066494, A81671, AB026436
2041	HSVCD79	894012	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1902 of SEQ ID NO:2041, b is an integer of 15 to 1916, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2041, and where b is greater than or equal to a + 14.</p>	AA429308, AW138602, AW024259, AA558588, AI492469, AI367813, AA428240, AA719541, AA888930, AI190902, C14850, AI217028, D60222, AI286160, AA737138, R79200, H64703, R79465, AA737139, AI268290, AF023259
2042	HSIFA27	894051	<p>Preferably excluded from the</p>	AI972556, AI968208, AW274901, AI744720,

			<p>present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1581 of SEQ ID NO:2042, b is an integer of 15 to 1595, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2042, and where b is greater than or equal to a + 14.</p>	<p>AI885290, AA449113, AW152432, AI479938, AI800087, AW390446, AI800088, AI799502, AI859002, AI423145, AW088405, AI858842, AI990019, AI809596, AI401062, AI360174, AW197421, AI689608, AW197663, AW103934, N42254, AI218225, AI206902, AI376613, AI219568, N59385, AA053930, AA534904, AI656541, AI128371, AI360254, AI285163, N32810, AA428038, N39444, AA776360, AW088291, AI817703, AA421739, AI565066, AI674914, AW190558, AW194393, AW276699, AI361508, AI824832, AW451191, R91784, AW390451, AA427924, AA257059, AW071546, AI081359, AI189019, AI002857, W93989, AW206484, H55900, AA034237, AA127466, AW188281, AI290045, AA447735, AW027775, AA773930, AI633932, AA364666, AA327290, R82206, AW027950, AI638501, W93800, AI690373, AW027793, AI143661, R59973, AA503464, R82261, R91785, N63596, AW276891, AW276821, AW182096, H01166, H01251, N29781, H24046, H13082, R27203, AI811525, AA055340, AA319583, AA358644, AA904821, AI274485, R27202, AA127579, R46792, N57202, R67153, AI803875, H13286, D25758, AI653480, N77073, AA055339, H24153, C04100, AA502410, N48556, AI874167, H61875, AI783927, AA453668, C15384, AB018305</p>
2043	HTTKV46	894121	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1047 of SEQ ID NO:2043, b is an integer of 15 to 1061, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2043, and where b is greater</p>	<p>AI678077, AI884863, AI869333, AI884942, AI859296, AA829937, AW250313, AW300936, AI571293, AW273060, AW248281, AA582906, AA928110, AA283711, AI589898, AI038859, AA594105, AA828316, AA906924, AA938955, AW170665, AW172642, AW248955, AA975490, AI123879, AI367867, AI826097, AW272915, AW070748, AA316879, AI089508, AI086474, AA661759, AI566244, AI015067, AI538087, AW245061, AW000868, AW409921, AA688299, AW250988, AA827720, W58033, AI953468, AA211097,</p>

than or equal to a + 14.	<p> AW078745, AI891144, AA994072, W79220, AI471577, W74508, AI222589, AW102638, AA918328, AA826730, AA969243, D56355, AA991461, H51344, H73020, AW089131, AA355115, AW340401, AA210923, AW168828, AA290724, T19021, W57949, AI362888, T29587, AA876186, AW268964, AI307442, AW304648, AW075100, AA380031, M91218, AW073433, AI802854, AI345036, AW071289, AI349002, AW075177, AI307208, AW072721, AI334909, AI312145, AW073656, AW071374, AI340734, AW075033, AI307478, AI348921, AI252839, AI307493, AI255068, AW073456, AW072496, AW302738, AW075181, AI583899, AW301481, AW271034, AI334911, AW074937, AI345565, AI334881, AW075006, AW072513, AI252926, AI252463, AI251289, AW074809, AI255052, AI307559, AW071420, AI270156, AI610913, AI251264, AI802837, AI583896, AA824526, AW072520, AI252160, AI251662, AI309390, AI334886, AI340619, AI252075, AI254764, AI251262, AW075183, AW302733, AW073049, AI251232, AI270787, AI247038, AW072901, AI054335, AI313336, AI246087, AW271039, AW271867, AI349195, AI269525, AI340589, AI250128, AI334733, AI054060, AI289711, AA464019, AI053722, AI340643, AI054057, AW071311, AI054302, AW074866, AW302327, AI054217, AW302085, AI054172, AI053900, AA293354, AW301901, AI054079, AI271496, AI254494, AI252427, AA993616, AI307473, AA496372, AA464729, AI566787, AI885746, AA496649, T90849, AW071307, AI565286, H77912, AI865061, AA426470, AI354978, AA912601, AW249375, AI345688, AI307618, AI345677, AI312210, AI340533, AI345130, AI254134, AI340511, AI349742, AI334895, AI307507, AI310927, AI336488, </p>

2044	HHGCE29	894341	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 639 of SEQ ID NO:2044, b is an integer of 15 to 653, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2044, and where b is greater than or equal to a + 14.</p>	<p>AI312271, AA995486, AW086285, AI254533, AI336565, AI334738, AI312261, AI609420, AI307549, AI307734, AI348847, AI345156, AI862220, AI307569, AI336654, AI310582, AI312959, AI311149, AI336503, AI310606, AI313346, AI336643, AI344808, AI309391, AI345143, AI309431, AI345527, AI312165, AI345739, AI312143, AI378721, AI344260, AI348981, AI348995, AI310940, AI344843, AI310571, AI307526, AC005324, M91670, AJ388535, AF093119, X70685, X72624, Y09972, AF069506, AF159148, AF144082, AL050280, AL133557, AF038440, AF113694, X92070, Z70226, AC000030, I52013, S73498, AC002480, AI252868, AI305762</p>
2045	H CYBE73	894397	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 342 of SEQ ID NO:2045, b is an integer of 15 to 356, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	<p>AA490691, AA525138, AA513505, AA442532, AA256875, AW194680, AA479366, AC009336, X71422, X60395, X60762, M81249, D10288</p>

2046	HWLVS05	894631	<p>NO:2045, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1425 of SEQ ID NO:2046, b is an integer of 15 to 1439, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2046, and where b is greater than or equal to a + 14.</p>	<p>AI952147, AA827782, AI523370, AW008938, AA236865, AI673370, AW043829, AI143323, N36986, AA306716, AI361743, AA460666, AW080829, AI914077, AI214786, AA862831, AI963652, AI913070, AI805253, AI423188, AI003936, AA994686, AA130868, AA533231, AI358965, AI873692, AA569719, AA865951, AA644481, AI272308, AI445569, AA130923, AI418685, AI669710, C00906, R85067, AA847433, AA502585, AA968581, AI088486, N46300, AA176755, AL048511, AA179075, AW163823, AW162071, AI274452, AL042488, AI799540, AI961393, AA904283, AI290128, F35031, AI582822, AA088789, AA829775, AI270039, AI679800, AW262565, AL042515, AI918424, AI884459, AA807326, AL122098, S68736, A57389, AL137562, AF158248, U72071, X79812, AL049959, AF070632, U92068, AJ131955, AF169154, AF030165, Z30970, AL096709, Z49258, AC006561, AL022396, Z98049, AC007370, AL049540, AL021391, U94316, AP000250, AP000133, AP000211, AP000030, AF162270, I80845, AF107018, U77594, AL0800074, AR029580</p>
2047	HCRMV27	894806	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 572 of SEQ ID NO:2047, b is an integer of 15 to 586, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2047, and where b is greater than or equal to a + 14.</p>	<p>AL134920, AL042896, AL119443, AL042965, U46341, AI142139, AL119418, U51899, A81671</p>

2048	HCR0122	894811	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 881 of SEQ ID NO:2048, b is an integer of 15 to 895, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2048, and where b is greater than or equal to a + 14.</p>	<p>AA279019, AA279229, AW392083, AI770039, AL134531, AW372827, AL119439, AL119484, AL119363, AL119391, AL134528, AL119444, AL119496, AL134538, AL119418, U46346, AB026436, A81671</p>
2049	HCQAF06	894818	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 129 of SEQ ID NO:2049, b is an integer of 15 to 143, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2049, and where b is greater than or equal to a + 14.</p>	
2050	HKCSA83	894820	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 562 of SEQ ID NO:2050, b is an integer of 15 to 576, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2050, and where b is greater than or equal to a + 14.</p>	<p>AW360811, AW177440, T03269, AW375405, AW178893, AW179332, AW366296, AW367950, AW360817, C14389, AW179328, T48593, AW178906, AW375406, D80439, AW378534, D58283, AW377672, D51799, AW179023, AW178905, D59859, D80022, C14331, D80166, AW177731, D80195, D80193, D59927, D59467, D51423, D59619, D80247, AW378528, D80210, D80391, D80164, D59275, AW178762, D80240, D80253, D80038, AW179019, D80043, D59787, D80227, D59502, AA305409, AW378532, AA305578, AW377676, AW352170, AW178907, AW178908, D80251, AW178914, C06015, AW378533, D45260, AI525923,</p>

				<p>C03092, AA285331, AW378542, AI525917, AA809122, T11417, F13647, AI525920, AA514184, AI525227, AI525913, AI525925, I50126, I50132, I50128, I50133, Y09669, AR066488, AR016514, D89785, AR066487, AR060138, A84916, A45456, A67220, A62300, A62298, Y17188, AB028859, A82595, A78862, D34614, A94995, D26022, AR060385, A30438, AJ132110, AR018138, A26615, AR052274, A43192, AR008278, X67155, Y12724, A43190, AR038669, AF058696, A25909, AR008443, AB002449, D88547, Y17187, D50010, A63261, A70867, X82626, AR062872, AR025207, AR008408, AR016691, AR016690, U46128, A64136, A68321, D13509, I14842, AR054175, AR060133, X68127</p>
2051	HSBA104	894824	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 566 of SEQ ID NO:2051, b is an integer of 15 to 580, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2051, and where b is greater than or equal to a + 14.</p>	<p>AI809563, AA375259, D50995, D80043, D80268, C14389, D58283, D80188, D80391, D59787, D51423, AW360811, D80247, D50979, D80196, D80439, D80522, C14014, D80212, D51022, D59859, D80022, C14331, D80166, D80195, D59467, D59619, D80210, D51799, D80164, D59275, D80240, D80253, D80038, D80227, D59502, AA305409, D59927, D81030, D80248, D81026, D80269, D80366, D80219, AA305578, C15076, D59610, D57483, D51060, D59889, D80193, D80133, D80045, D80024, AA514186, AA514188, D80302, D80157, D80378, D51103, AW177440, D51759, D45260, D80241, D80251, AW178893, T03269, C06015, AW377671, AW375405, H67854, AA809122, AW178906, AW366296, AW360817, AW179328, T48593, AW375406, AW378534, F13647, AW179332, AW377672, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, AW378532, AW352170, AI525923, T11417, C03092, H67866, AW179020, AW377676, AW352171, AI525917, AW178907, AW178908, AW179024, D51250, C14227, AW360834, AW177733, C14973, D58101, AI525920, D59317, AW367950, AW177456, T03116, AI525227,</p>

2052	HCQCD80	894827	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 557 of SEQ ID NO:2052, b is an integer of 15 to 571, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	<p>AW178980, D58246, AW178986, D81111, AW178914, D59474, AW178774, D80258, AW179018, D80014, D59503, D80064, C14344, AW378533, AI525242, D51221, AI525912, AA514184, AI525235, AI535686, D51079, AW178911, AW378543, AW378525, AW378540, AW352163, D59551, D52291, AI525215, AW177728, C14046, D59627, AI525925, AI557774, C14407, D80168, AI557751, AI525222, D51213, AW178781, C16955, AI525237, Z33452, AA285331, AW378542, T03048, D45273, C05763, T02974, Z21582, AW360855, AI525928, AI905856, AI525228, H67858, C14298, T02868, AW369651, AI525216, Z30160, C13958, AI525238, T11191, D31458, AI525913, AC000047, AR008278, AB028859, AJ132110, A84916, A62300, A62298, A82595, AR060385, AR018138, AF058696, AB002449, I50126, I50132, I50128, I50133, Y17188, AR016514, X67155, AR060138, A45456, A94995, D26022, A26615, AR052274, A43192, Y12724, A43190, AR038669, A25909, AR066488, Y09669, AR066487, A67220, D89785, A78862, D34614, A30438, AR008443, AR054175, I14842, Y17187, AR008277, AR008281, D88547, A63261, D50010, AR016808, AR062872, A70867, X82626, AR008408, AR016691, AR016690, U46128, AR025207, X64588, A64136, A68321, I79511, D13509, X68127, AR060133, AF123263, X72378</p>
				<p>H67854, D80024, D51079, D80014, D80188, D81111, D80251, D80366, D57483, D80253, D59889, D51423, D59859, AA809122, D51053, D80248, D50979, C14389, C14014, D80268, D80439, D58246, D45273, D81030, D45260, F13647, D80157, AI557774, H67866, C15076, D80166, D80212, C16955, D59619, D80133, D80210, D51799, D59551, D80240, T11417, C03092, D80219, D58283, D80258, D80064, AA305409, D81026, D80269, D80022, C14331, D80195, AA305578, D59627, C14973, Z33452,</p>

			NO:2052, and where b is greater than or equal to a + 14.	D80196, D59467, D80247, C14227, D51022, T02974, D59503, D80168, D80391, D80164, D59275, D80045, D80038, C06015, D80043, D59787, D80227, D59502, D50995, D51103, Z21582, D59474, D59610, D51221, D59317, D80302, D80522, D59927, D59653, D51759, D51060, AI535686, C14046, C14344, C14407, C14298, D58101, C05763, AI525235, AA514186, D80193, D51213, AA514188, AA514184, T02868, D80241, D60010, Z30160, D80378, AI525912, C13958, AI525920, T03116, D80949, AI525242, T03048, AI525222, AI525917, AI525228, AI525215, AI525216, AI525227, AI525238, AI525237, C75259, AI525239, N66429, AI525923, C05695, AF176838
2053	HCQCF52	894830	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 793 of SEQ ID NO:2053, b is an integer of 15 to 807, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2053, and where b is greater than or equal to a + 14.	AA227515, AA668992, AA521270, AA642411, AA912934, AI769898, U66679, AW104620, AI128014, AA887445, AA767655, AI827845, AA527308, AA521033, AA403157, AA769395, AI678722, AI806729, AI311483, AA705237, AA824500, AA971136, AI685026, AA403158, AA854414, AI276471, AI247618, AI675494, AI675399, AA733151, AA363682, AA507532, AI400404, AA974072, AI810257, AW273711, T78010, AW136893, F34862, AA626765, R08913, AA056272, AA743512, AA369621, AA577252, C14331, AA809122, AI557751, D51799, D59502, D80195, D80038, D80164, D58283, C14429, C14389, D81026, T10733, D59467, D59275, D80302, D80227, C15076, D80439, D80269, D80022, D80166, D80193, D59619, D80247, D80210, D80391, D80240, D59859, D80045, D50979, D59787, AA305409, D51423, D80253, D80043, D81030, AA305578, D80212, D80196, D80188, D80219, AA514188, D80268, D80366, D51022, D80248, D80522, D50995, C06015, D59927, C14014, D51060, D59610, D57483, D80378, D51103, D80133, D59889, AA514186, D80024, D80157, AW360811, AW177440, D51759, D80241, C05695, D80251, AW178893,

	T03269, AW377671, AW375405, D59653, C75259, C14344, AW366296, AW178906, AW360844, AW360817, AW179328, T48593, AW375406, D59373, AW378534, AW179332, AW377672, AW179023, H67866, AW178905, AW177731, AW378528, AW178762, AW179019, D45260, AW378532, AI525923, H67854, T03116, C03092, D59503, AI535686, D80064, AW177501, AW177511, C14407, N66429, AW179020, D59317, AW377676, AW352171, D80258, AW352170, T11417, AW178907, AW178908, AW179024, D58246, AW352117, F13647, AW177456, D51250, AW360841, AW360834, AW352120, AW177733, AW177505, AW176467, AW178775, D81111, AW367950, AW178909, AW179004, D59551, AW179329, AI525917, AW178980, AW178986, AW178914, AW178774, C14227, AW178754, AW179018, AW352158, D80014, AI535665, C14973, AI525920, AW378533, D59695, D51221, D59474, D60010, AI535959, AI557774, D60214, AA514184, AW179009, AW179012, AW178911, AI525227, AW378543, AW378525, AW378540, AW177722, AW352163, D52291, D58101, C14046, AW177734, C14957, AI525235, AW177728, AI525925, D80949, D59627, AI525242, T02868, AW178781, AI525215, D51213, D45273, AI905856, AI910186, D59976, AI525912, AA285331, AW378542, AF038950, AB005289, AF078777, AF133659, AR028561, U43892, A82595, A30438, A62298, A84916, AR018138, A62300, AR060385, Y17187, AB028859, AJ132110, AB002449, AF058696, Y17188, AR008278, I50126, I50132, I50128, I50133, AR008277, X82626, AR008281, AR016514, AR016808, X67155, AR060138, A45456, I14842, A94995, D26022, A26615, AR052274, A43192, Y12724, A43190, AR038669, A25909, A67220, AR066488, Y09669, AR066487, X68127, D89785, A78862, D34614, AR008443, U46128, AR054175, AR016691, AR016690, D50010, D88547, A63261, A70867,

2054	HCQDE22	894831	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 829 of SEQ ID NO:2054, b is an integer of 15 to 843, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2054, and where b is greater than or equal to a + 14.</p>	<p>AR062872, AR008408, AR025207, I79511, A64136, A68321, D13509, AR060133, I82448, AF123263, AR032065</p> <p>N58518, AA699859, AA677543, AC006556</p>
2055	HWLVU33	894832	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 739 of SEQ ID NO:2055, b is an integer of 15 to 753, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2055, and where b is greater than or equal to a + 14.</p>	<p>AA775419, AI273235, AI754154, AI446402, AI640735, AI468600, AA602645, AI675266, AA460180, AI382693, R40043, AA813916, AL119457, AI110849, AL042544, AL042382, AL119399, AL079794, AA225339, AI468872, AW262565, AI499463, AI680498, AI362637, AI491852, AL043326, AL135661, AI224992, AI648684, AL045903, AI679990, AI590118, AW148716, AI446092, AI282326, AI554245, AI857296, AI701074, AI569616, AI446605, AW087445, AW071417, AI636445, AI567360, AI591316, N42321, AI269696, AI500039, AI758437, AI612920, AI570384, AI801766, AA640779, AA287231, AI811344, AI520785, AI886124, AI690312, AI590120, AI475451, AL040243, AI554427, AI273142, AI097248, AW103893, AW150578, AI869367, AI868831, AI633419, AI433976, AI280747, AW302988, AW274192, AI687065, AI612759, AI800453, AI800433, AI684265, AW023590, AI273048, AI539771, AI816947, AI610756, AI274013, AI500146, AI537677,</p>

AI859511, AA427700, AW170635, AI539153, AW075084, AW118512, AW131954, AW196141, AW192375, AI554484, AL036361, AI568296, AI912866, AI885974, AI571551, AW168795, AI281779, AI252813, AI453322, AI498579, AW002342, AI824557, AI702433, AI343059, AI799199, AW082040, AW102785, AI561299, AI610645, AI349933, AW301409, AI888953, AW088903, AL038565, AW088793, AI866002, AI828731, AI866608, AI866111, AI919345, AW162071, AI251830, AI366549, AI636719, AW238730, AI802542, AL120736, AL036214, AW074993, AI349614, AI800411, AI538085, AI445165, AW268253, AA508692, AI312152, AI952360, AI264741, AI340582, AI784252, AW132034, AW193000, AI349937, AI702406, AI567993, AW301410, AI571909, AI349004, AI620287, AI917055, AI307708, AI318280, AI680388, AI308035, AL036146, AL036759, AI815855, AI679504, AI873704, AI923768, AI682743, AI678302, AL079963, AW403717, AW071349, AI439478, AW268220, AI560099, AW103371, AI273843, AI521012, AI270707, AA470491, AI281837, AW243820, AI801152, AI439745, AI632033, AI434223, AL079741, AW301505, AL045500, AI922901, AI249257, AI590999, AI569583, AI572787, AI564247, AI282281, AW075351, AI925156, AW169653, AW303061, AW148320, AI608936, AL119863, AW075413, AI500077, AW167410, AI282903, AW300889, AI862144, AI439717, AI567612, AI284131, AI570989, AI312428, AI619749, AI567351, AL134259, AI431424, AI250663, AL119828, AI343112, AI349645, AL036980, AA938383, AI133559, AI349598, AI572676, AL036802, AI269862, AW071177, AI476109,				
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	AI345735, AI648663, AL036396, AI950664, AI872074, AW168723, AI538716, AA613907, AW089572, AI334884, AI348897, AL036274, AI433157, AI500659, AW068845, AI612885, AI340627, AI634224, AI445237, AW151138, Y11587, AF158248, S68736, I48979, AL122093, AL122050, AF125949, AL133640, AL110196, AL133016, AL117457, AL137557, I48978, A08916, AF113013, I89947, AF078844, A08913, S78214, I89931, A93016, AL080137, AF118064, L31396, L31397, AF017152, AL080060, AF113694, AF113691, AL050393, AL133565, AF113690, AF113019, AF090934, A65341, AL137459, AL137527, U42766, AF090943, AF090900, AF113676, AF111851, I49625, AL133557, AL110221, AF125948, AL050146, AB019565, E03348, AF118070, X84990, AL050149, AL133606, AF104032, AL049314, AL133093, AL080124, AL049452, AF113677, Y11254, AL050116, AF091084, U91329, AL122121, AF017437, AL049938, AJ242859, AL117460, AL050108, AL110225, AL117394, X63574, AL122123, AR011880, AF113689, AF090903, AL096744, AF146568, AF090896, AF090901, AR059958, AF079765, AF106862, Y16645, AL117585, AL133075, X82434, AJ000937, AL133080, AF113699, AL049466, AL137550, AL050277, E07361, AJ238278, AL049464, AL050138, A08910, AL133560, AL137283, AL122098, AL049382, E02349, AF177401, AL049300, AF097996, AL117583, E07108, AL080127, U00763, AL117435, A58524, A58523, A08909, AL049430, Z82022, A77033, A77035, AF118094, AF183393, A08912, I33392, AL050024, X72889, AL137538, X70685, U67958, AL133113, AL137271, I42402, A12297, X96540, AF061943, AL137648, I03321, AL137463, X93495, U35846, AL137521, X65873, A03736, AL122110, U80742, U72620, AL137560, I09360, AL049283, AJ012755, AF119337,

				<p>AF087943, AL122111, AF067728, AL080159, AL133072, X98834, AL050172, AL110197, E08263, E08264, U77594, A07647, AL122049, E15569, AR000496, U39656, S61953, AL133568, AF000145, Z72491, AL137476, AF026124, U96683, I17767, Y09972, I26207, AL133077, AF111112, AF057300, AF057299, M30514, AL137556, AF132676, AF061836, A93350, AL133014, AF026816, AF003737, AF095901, A08911, AL137523, I00734, I66342, U68387, Z37987, E00617, E00717, E00778, E02221, AL133104, AL080074, AR013797, AL137526, AF081197, AL133098, AF079763, AR038969, AF067790, A45787, E05822, AL110280, AF106827, Y14314, AC006371, AL133067, AF153205, AL137429, AF100931, E04233, AF118090, AF185576, X83508, AF162270, AF081195, L19437, AL117440, AR038854, AL137533, A90832, Y07905, X62580, AJ006417, X53587, AF111849, L30117, AF061573, U49908, AL137705, AF008439, AC004200, X87582, U58996, AF000301, E08631, AL137300, AL122118, U88966, AR054984, AL080158, AL023657</p>
2056	HAIJAY88	894842	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4002 of SEQ ID NO:2056, b is an integer of 15 to 4016, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2056, and where b is greater than or equal to a + 14.</p>	<p>AI432644, AI623302, AI432655, AI431310, AI432654, AI431337, AI431328, AI432651, AI432677, AI432666, AW081103, AI432653, AI431312, AW128900, AI431347, AI431230, AI431354, AI431346, AI432662, AI431353, AI492519, AI431255, AI431243, AI432649, AI432647, AI432661, AI432675, AI431248, AI432650, AI431330, AI432665, AI431357, AI431351, AI431345, AI432672, AI431254, AI432676, AI431241, AI432673, AI432658, AI432674, AI431340, AI432664, AI431307, AI431316, AI791349, AW128897, AI432657, AI431247, AI431358, AI492520, AW129223, AI432643, AI431751, AI492509, AI492510, Y17793, AF064854, AF019249</p>

2057	HCRPM46	894878	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 573 of SEQ ID NO:2057, b is an integer of 15 to 587, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2057, and where b is greater than or equal to a + 14.</p>	<p>AL119319, AW392670, AL119418, AL042551, AW372827, AW363220, AW384394, AL119497, Z99396, U46341, AL119483, AL119457, AL119443, AL119324, AL119484, AL119363, AL119341, AL119391, AL119355, AL134531, AL134518, U46351, U46349, AL042965, AL119399, AL119335, AL119522, AL119396, U46350, U46347, AL119496, AL119444, U46346, AL134528, AL042975, AL134538, AL042542, AL037205, AL134920, AL134533, AL119439, AL042614, U46345, AL043019, AL042984, AL043029, AL042896, AL043011, AL042970, AL042450, AL042544, AL043003, AL119488, AL119464, A81671, AR060234, AR066494, AB026436, AR054110, AR069079</p>
2058	HOEQQ19	895122	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1049 of SEQ ID NO:2058, b is an integer of 15 to 1063, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2058, and where b is greater than or equal to a + 14.</p>	<p>AA307684, AA232750, AI417539, AA100160, AA232253, AA864846, AA244504, AA244505, R57782, AW364482, AW364479, AR044133, AR044123, AR044135</p>
2059	HKGBP52	895303	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2702 of SEQ ID NO:2059, b is an integer of 15 to 2716, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2059, and where b is greater</p>	<p>AW058657, AA400627, AI692280, AI342528, AI743405, AA400382, AI675621, AI808100, AI688291, AI340200, AI701582, AI813453, AW135173, AI343951, AI299820, AA393033, T03738, N24268, H98701, AI040531, R56558, H54669, AI830628, H01460, C16675, AA707616, H00353, AI146912, H01555, R21829, AI755214, AI754567, AI754105, R56559, AA535216, AI249688, AI080307, AL135377, AW131356, AI038304, R21894, AW103406, AI569100, AI858691, AI583142, AW192599, AI077941, AA176978, AA704393, AA602906, H00307,</p>

than or equal to a + 14.	AA491767, AA719073, AA659832, AW270385, AI884383, AI354423, AI061313, AI590458, AI679002, AW270255, AI679759, AI926728, AI590499, AW069227, AI732502, AI791458, AI609972, AI754336, AI590580, AI499376, AW022934, AI753113, AW277253, AW438856, AA584765, AA484892, AI791659, N71685, AA444166, H85383, AA171892, AW089950, AI572680, AA715173, AI636734, AA720702, T57096, AI707788, AA622801, T71936, AI431513, AA583386, AA525753, AI753488, AI340151, AC002565, AC004841, AC007766, AC005244, U63630, AL080317, AC007283, AC000159, U47924, AL035455, AJ010770, AC004013, AC004887, AC005067, AC007216, AL035454, AC005971, AC006064, AF129756, AC006581, AC005102, AL133163, AC004983, AC005081, AC009721, AC005088, AC005280, AC010170, AC004685, Z82976, AC006511, AC004148, AF045555, AC002551, AD000833, AC005670, Z98750, AL078581, AC005004, AP000505, AC006241, AL109628, AL033527, AC005365, AL109759, AL023575, AL049759, AL049643, AC005231, AP000213, AL049780, AC006530, AC005071, AP000135, Y14768, AC004476, AP000359, Z81364, AF176915, Z97183, AC005399, AP000687, AL034417, AL009181, AL035413, AC006006, AL109798, AC002477, AL135744, AC006317, AL031685, AL021407, AC005095, Z93017, AF134726, AF030453, AC005488, AC006141, AF024533, AC007055, AC002990, AC006930, AP000512, AC007250, AC007687, AC004534, AC007308, AC005332, AL034429, AL021331, AC006449, AC004518, AL034582, AC016025, AP000031, AC002395, AL080243, AC005531, U80017, Z93023, AC004922, AC005519, AC005914, Z83844, M63544, AC010077, AB023048, U91319, AC004895, AL022722, AF109907, AL139054, L47234, AL034423.
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				AC005005, S42653, AC005821, AL050307, AC004878, AL031659, AC005755, AC005666, AC004531, AC006014, AC002059, AC005871, AC004686, AE000658, AC005722, AC007363, AC004262, AC004805, AL109827, AL121572, AC005212, AC002545, AC004820, AC005527, AC002369, AC006277, AC003982, U85195, AC002558, AC004098, U07563, AC007011, AC007774, AC006312, AL023882, AL021453, L44140, AC004447, AP000518, AC004223, M30688, AC005228, AC005011, AL132992, AL031230, Z94802, AC005529, AC007559, AC004785, AB023054, AC007387, AF067844, AC004802, AC005261, AC005520, AP000346, AC002470, U62293, AL033392, AP000552, AC005625, AC006236, AC006318, AJ004799, Z97054, AC005479, AP000008, AC005618, AC005037, AC005565, AL009183, AC002316, AC000025, AC005182, AC006537, AC007151, AC002119, AC007384, AC007536, AL022323, AL034449, AC000379, AC005696, AC002544, AC005192, AL031670, Z77249, U95740, AL096678, AC007666, AC004551, AL031257, U89337, AC003962, AC007227, AL133500, AB015355, H54670
2060	HOUHL17	895372	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1999 of SEQ ID NO:2060, b is an integer of 15 to 2013, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2060, and where b is greater than or equal to a + 14.</p>	AI672040, AL037809, AI921086, AW205338, AI346874, AI379288, AI057116, AW152412, AA643506, AI753970, AW297898, AI089940, AI151007, AA747432, AA781418, AI287276, AI949867, AW055035, AA809274, AI375114, AA314065, AI610827, C05162, AI042079, AA449983, AI301820, AA436528, AA857802, AI695102, AI569128, AI287893, AI144264, AA831336, AW102601, AI933705, AI274322, T75244, AW449770, AI004208, AA436477, AI914752, AI580398, AI435344, AI025856, AI401764, D19611, AA632414, AA865513, AA872400, AI168700, AA459889, AI273820, AI124065, AA724118, R38638, AI269172, AA453119, F13485, AI467814, AI630648, C04391,

2061	HDPPB40	895675	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2581 of SEQ ID NO:2061, b is an integer of 15 to 2595, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2061, and where b is greater than or equal to a + 14.</p>	<p>AA448779, D57975, AI474663, AA627283, AW351677, AA362005, T06370, AA581145, F11298, H03672, AA383368, F08958, D62803, H03671, AI264956, C16419, F10353, AW388337, AA243374, AI796664, AI758552, AI695343, AW391667, AI800690, AI539480, H87103, AW150643, AC008498, AL021997</p> <p>AI223386, AI279733, AI453754, AA838730, AL043887, AI373900, AI080395, AI223392, AI750397, AA813783, AI911812, AA253429, AI799380, F09731, AL043886, T81826, AI221738, T65287, T65235, AR052513, D50419</p>
2062	HWLOI29	895781	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 540 of SEQ ID NO:2062, b is an integer of 15 to 554, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2062, and where b is greater than or equal to a + 14.</p>	<p>AC006050</p>
2063	HCRMJ47	895927	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1834 of</p>	<p>AW084003, AA570505, AA526186, AW006250, AW007762, AI458032, AA149494, AI799666, AI341557, AI084783, AI190971, AI377966, AI085276, AI972710, AI962810, AW148913, AI380460, AI123203, AI122890, AW007426, AI863238, AA603986, AI307748, AI921067,</p>

			SEQ ID NO:2063, b is an integer of 15 to 1848, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2063, and where b is greater than or equal to a + 14.	AA149490, AI280975, AI336463, W73495, AI367500, W73595, AW149089, AI814701, AI766921, AW450642, AA235464, AI189309, AW072576, AI129064, AA574230, AA292528, AA650188, AI589229, AW294024, AI580733, AA037024, AI288103, AA877009, AI660255, F24537, AA578293, AA047125, AA864573, AI274628, AW188597, AI572782, AA374109, AI866359, AA558228, AA621604, AI264439, AA658397, AI652870, AA573559, AA573997, AI567038, Z39737, AW236431, AW243333, T81066, AI684973, AA034505, AW377101, AA372354, AA047126, AB027466, AR035961, AR037874, AR035966, AR035967
2064	HLDXE66	896008	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 473 of SEQ ID NO:2064, b is an integer of 15 to 487, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2064, and where b is greater than or equal to a + 14.	AI500518, AW328444, AW327862, AI971783, AW328440, AW328380, AW328614, AW327796, AW007896, AI628924, AW410322, AW409642, AW328007, AW328376, AW087373, AI754439, AW409590, AI287514, AA551550, AA501684, AI440000, AA603360, AI818460, AI201181, AI610070, AW409683, AA535393, AI699829, AI559540, AI560651, AA574413, AI827247, AW328350, AW328609, AA513486, AI754460, AW134985, AI755116, AW007719, AA283266, AA854768, AI497632, AA772414, AA496883, AW328320, AA679713, AI050044, AW020501, AI619744, AI339813, AA886011, AW250421, AI274211, F32918, AA579416, AA632536, AI567937, AI831479, AI151481, AI186976, AA877933, AI185119, AI620681, AA757769, AI690593, AA714364, AA558105, AI922235, AA632723, AA843775, AI924171, AI961721, AW250755, AW090148, AA491636, AI338728, AI123375, AW090155, AW081336, AI539209, AI890302, AW245791, AI573062, AI028444, AI863898, N64026, AI439763, AA847963, AI749978, AW261931, AI634383, AI191638, AI198771, AI719450,

	AI344453, AI718439, AI268677, AI631303, AI253560, AW250772, AI796657, AA536044, AA569292, AW169077, AI570813, AI697471, AI149358, AI355377, AA610275, AI674831, AI114866, AI565047, AI193415, AI571454, AW262848, AA600356, AW316876, AA536172, AI185211, AI660181, AW273029, AI818029, AW192285, AA580796, AI719806, W73177, AW080272, AI619835, AI620986, AI830017, AI478688, AI925379, AI813549, AI683998, AI745129, AI491901, AW338471, AI582160, N91538, AW090784, AI610180, AI697356, AI660159, AI925537, AI224078, AI859783, AW028278, AA598891, AI281231, AI289421, AW305195, AA908802, AW073669, AI800405, AI342580, AI432916, AW170472, AA513180, AA653476, AI272858, AI963461, AI620289, AI523503, AI891159, AI475307, R02544, F24388, N32326, AI270199, AI924530, AW242012, AA448266, AI557537, AI560707, F20364, AI754142, AA776791, AI206373, AI189997, AI510744, AA723534, AI831263, AW105711, AI979037, AA879052, AW118551, AI673755, AI951247, AI962912, AA737215, AW005146, AI624705, AA662258, AW023162, AA609197, AA984855, AI983037, AI921779, AI734902, AI573083, AI718498, AW170473, N32870, AI924173, AI523495, AW166489, AI860956, AW073952, AI818256, AI000938, N31753, AI583997, AI749136, AI333494, AA580751, AA879000, W85708, AA508174, AW328608, AI439940, AI689023, AI983079, AI924195, AW188874, AA491865, AA312014, AA908266, AI160628, AI860497, AI185035, AW084818, AI557538, AW273989, AW148607, AI735229, R16758, AI333611, AW079820, T50503, F21939, AW337470, AI160685, AA507934, W37825, AA483482, AW248884, AA046751, AI654327,

				AI969498, AW245433, M36072, AC000089, X06705, AJ224080, AC004217, X61923, X52138, AC002107, AL034417, AB023058, AP000521, AL022723, AF055066, AJ224082, AC004192, AC004172, AJ224081, X15013, AC000399, AC005042, Z84469, D63790, AC004129, AL031736, AC007110, AL078595, AC002452, Y17212, T51109, T55719, T56886, T58519, T59899, T59990, H50847, H98782, N24572, N34014, N95637, W69735, AA025830, AA070711, AA079673, AA084650, AA085276, AA102516, AA148893, AA150738, AA156887, AA181948, AA187531, AA425933, AA428802, AA226324, AA279495, AA480450, AA484692, AA523996, AA535068, AA554440, F15687, AA586409, AA602157, AA603678, AA610650, AA632560, AA580635, AA730447, AA737209, AA862929, AA863478, AA885536, AA886913, AA954603, AA962430, AA975386, AA976970, AA991428, AA999672, N87911, AA641479, AA129690, AA211080, AA400765, F20644, AA775513, AA283334, AI078081, AI078082, T11296, AA693434
2065	HAIBM54	897234	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 561 of SEQ ID NO:2065, b is an integer of 15 to 575, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2065, and where b is greater than or equal to a + 14.</p>	AW245845, AW245888, AW247437, AA226733, AA019081, AA325881, AW247424, AA324707, AI802708, AA315689, J04469, Z13969, X59737, Z13968
2066	HSXAX45	897524	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>	AI459464, AA808743, AI144559, AA861434, AA404217, AA630335, AI831253, AI248728, AI870869, AA618605, AI458793, AI027413,

			<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 772 of SEQ ID NO:2066, b is an integer of 15 to 786, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2066, and where b is greater than or equal to a + 14.</p>	AA918131, AI128366, AW405777, AI800139, AI805659, AA569324, AI138987, AI333605, AA461611, AW189901, AA461439, AA586689, AA915895, AA991975, AA642111, AI033160, AA459952, AA503924, AA622287, AI126939, AA724107, AA460041, AI215829, AI312833, AA772627, AA442303, AI936227, AI200468, AI282278, AI167870, AI130767, AW130869, AI813604, AA847250, AI151532, AA437238, AI338407, AI192747, AI283778, AI460353, W56676, AA757574, N57307, AA676676, AI371859, AA992661, AI087026, AI669032, AI149595, AW406281, AA946707, AI245790, AI198433, AA831222, AI075992, AW073856, AI763210, AA442843, N21005, AI952652, AA508853, AA486261, AA526931, W40406, AA486260, AA024930, AA284849, N29407, AA768383, W40407, AA437013, AA024825, AI185523, AA722830, AI349462, AI250412, AI269354, AI133169, AA894509, AW170573, AA921691, AA284802, AI302348, AA292566, AI193841, AA578220, AA507115, AI862001, W37391, AI022024, W24131, AA740528, AI186092, AI467975, AW103067, AA524571, AA229574, N95179, R62977, AA634150, N32209, AA235699, H96097, AA658144, N57342, AI206465, AA640985, AW004616, AI016392, AA143283, AI262367, R63032, R99896, AW406045, AI125021, AA143393, AI523228, AI339136, AA946883, AI347544, AI188553, R92363, AA177015, F31926, AI679670, W37497, AI583398, AI202671, H04881, AI033929, AA876042, H20673, AA298828, R79287, AI051474, N99131, AI817004, AA687956, R79180, AA635984, AI138519, AI270668, AA693744, AA297347, N70831, N47384, T54362, AI216682, AA297222, AA587485, N32134, AI066418, AI300272, AA296828, AA298518, R99897, AA298240, AI833094, AA298536, AI186393, H22510, AI189398, H22509,
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2067	HE8PB56	897898	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2007 of SEQ ID NO:2067, b is an integer of 15 to 2021, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2067, and where b is greater than or equal to a + 14.</p>	AA662435, N41466, N58333, D31322, AA907280, R76074, AA297370, H04783, T85291, AA298741, AA302967, H27066, AA404603, AA298381, AA297378, AA765280, R35471, AA302689, H79531, F36801, AA927760, AA298514, H73217, AA298519, N25286, F24740, AA112093, AI216691, AA083801, AI970763, N77700, AA297394, AW452564, N25282, AA247750, H65350, AI563987, AI146648, W51900, W01428, D31025, AI989423, AA536023, AA297194, T85501, AA093872, AA876242, AI420825, AI685575, AA229674, AA297898, AA552821, AI650972, AI434732, AA297186, W69409, R34274, AA297309, AI950138, AA094185, H27270, AI636819, AA648182, W21537, H65557, N79089, W69596, AI500252, AA552687, H73717, AW008699, W21396, N95173, Z69043, Z68129, U52111, X90583, Z19087, AF174394, AF100694, AF125570, AF118386, AL049963, AL080096, AL080106, H37822, AA507362, F18464, D19878, AI127803 AW167175, AI740811, AI814625, AW372977, AW379570, AI830090, AA843925, AW372976, AW269507, AW379557, AI378931, AI817634, AI858698, AI828457, AI694126, AW392769, AI830092, AI422742, AI400366, AI092688, AI890963, AI679511, AI913025, AA253194, AI419413, AI811323, AI951020, AI022434, AI683943, AI525592, AA568164, AA688138, AI452382, AI146463, AI400768, AI288461, AA906505, AI924309, AI167393, AA654360, AA186897, AI004583, AA775509, AI493331, AA614431, AI346389, N62092, AA626034, AI023936, AW043643, AW273008, AA159711, AI921444, AA159816, AA482352, W38893, AW268508, AI970751, AA588751, AI077673, AA016243, AA586975, AI985699, AI587086, AI860660, AI475132, N95055, AI075057, AW274617, AW304099, AA160381.
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	AA506029, AW238652, AA086218, AA482254, AI436339, AI291597, H99748, AI278514, AA610151, R63720, R70906, AA471074, R77169, AA079633, AA480373, AA468385, AW302595, R82584, AI446687, AI283412, AI816752, H97740, AA932817, W93394, R82585, AI682734, AA844033, AA639961, AI880674, AW104925, AW261859, H21696, AI291596, H01942, AI168626, AA935864, AA580370, AA258741, AA618219, W93362, AA258377, AW238247, AI190841, AI091676, AA328654, AI932899, C17106, AA297487, AA159815, D79077, AA158761, AW134560, R70993, W79646, AA296799, AA159710, R63767, R70905, AA159565, AI472890, AA298549, AI492053, AA016203, AI811530, AA469417, AA076609, AA468424, AI202629, AI858629, AA297628, C00038, R27158, H21906, AI268312, AW242097, AA298285, AI955543, R39395, AI471235, AI572472, AI383070, AI049608, AA631038, AA188520, AA298874, AI369025, AW190612, AA297272, AW379900, C17487, AA385499, T48546, AI887113, AA297236, AA328285, R38317, AW265590, W93606, R23770, AW050524, AA372564, R32172, AA583881, AA253195, R32216, R70940, AI000172, R23723, AA100383, AI572289, AW238464, AA352092, AI890265, AA382912, AW117913, AA076610, N87013, AI813387, AA340827, H04495, C06417, H23455, AI474703, T24990, AA203668, AI561317, AI917619, AI858794, T10423, R26913, AA079807, AI350112, AW384494, W32530, AI866316, AI436481, AI619820, AI307557, AL135545, AI434731, AW268743, AI690687, AI274811, AI799540, AI761468, AW079334, AI624529, AW059828, AA665587, AA971033, AI564500, AI499325, AI567940, AI633062, AI309306, AI267185, AI345677, AW071417, AI634457, AI784214, AI445069, AI076344, AA659410, AI537677, AI225000, AI860027,

AW191844, AI473451, AI922550, AI161279,
AI249274, AW410302, AI401697, AL023582, X70685,
AF113019, AI8777, AL080110, Z97214, A52563,
AI2297, AF151109, I48978, X72624, E01573,
E02319, I89947, AL050277, E06743, A23630,
E12580, A08907, AF131821, AL117626, I17544,
AL050155, AR068466, AL137480, U77594, AF028823,
X66871, I33392, M27260, AL049283, A08913,
I09499, AL137488, A58524, A58523, A12522,
AF118094, A08912, A08910, A08911, A08909,
AL110218, AR038854, AF031903, A08908, AF031147,
AF039138, AF039137, A18788, S76508, AJ012582,
AF065135, AL080154, A45787, AL137275, AL117394,
AL050138, L13297, I18355, S36676, E02253,
I34392, U35846, S77771, I89931, AL117648,
Y10080, AF097996, E12579, AF114168, AL137529,
AR029490, I49625, AR068753, S83456, U92068,
AF183393, Y10655, AF117959, X76228, X87582,
AF215669, AL137523, AL137648, X55446, AF185614,
U78525, AL110222, AL133606, I68732, AR011880,
I89934, A93016, E08516, AL035458, AR068751,
AF090934, X83544, AL122106, AL137574, AF177401,
AL080148, AL137294, AL096751, AJ005690,
AL137550, X98834, I08319, E15569, E02914,
Y11254, A76337, A76335, I92592, A91160, U37359,
AL049466, AF044323, S68736, AL137665, AL110269,
AF081197, AF081195, AC004213, AF087943,
AL137530, AF184965, AL136842, X65873, AF000145,
AJ004832, S78214, A21103, AL110171, E05822,
A90844, AF111849, M86826, AL117649, Y09972,
E08631, U73682, AL137521, AF090901, AF140224,
I48979, S54890, A65965, AB019565, A57389,
Y11587, X84990, AF017152, D00174, AF112208,
AL080162, A65943, M92439, M80340, AC004200,
E12747, AF111112, M19658, AJ001838, A08456,
AJ000937, AF118090, AF109155, AL110158,

2068	HTPGE66	898087	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 251 of SEQ ID NO:2068, b is an integer of 15 to 265, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2068, and where b is greater than or equal to a + 14.</p>	<p>AL117457, AL122045, AL137284, AL137533, U57352, Y14634, I32738, A08916, E01614, E13364, A03736, AB029065, AF069506, J05277, AF104032, AL133623, S63521, AL137478, U76419, AL110221, AJ003118, AF185576, S79832, U42766, AF022363, I89944, D55641, I41145, X63410, AL122110, AL049339, AF130470, AL133640, AF013249, AL137271, AF141289, AF017790, AL133075, A07647, AF026008, X06146, AF004162, AL049382, AL080074, A70386, X61970, AF000167, AR055519, AL137627, AF091084, A92311, AL133069, AF017437, AL137283, A86558, AL137557, X79812, A77033, A77035, X62580, AL049430, X95876, AL137461, E02349, AF120268, I17767, AL137554, AL122100, AF043493, U87620, AF061795, AF090903, Y14314, AF151685, X99717, AF146568, AF090896</p>
2069	HWLIL19	898136	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 760 of SEQ ID NO:2069, b is an integer of 15 to 774, where both a and b</p>	<p>AA044731, AA044768, AW237077, AI818416, AI989722, AI826965, AW058201, AI445972, AA053091, AI587426, AW190814, AI923823, AA112375, AI587431, AI446688, AA053602, AI493214, AI991706, AA135893, AI798538, AI984082, AI803879, AI990405, AI932810, AI582971, AI917076, AA346311, AI521001, T93732, AI611349, AA135894, AI950541, AA172400,</p>

			correspond to the positions of nucleotide residues shown in SEQ ID NO:2069, and where b is greater than or equal to a + 14.	AI434008, AI913316, AI932552, AI431343, AC007688, AF095448
2070	HPJEE80	898157	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2606 of SEQ ID NO:2070, b is an integer of 15 to 2620, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2070, and where b is greater than or equal to a + 14.	AA314262, AI698145, AI751509, AI765378, AI819921, AI309793, AI983094, AI889488, AI691017, AI478725, AI418367, AI768787, AI336867, AA770272, AI579948, AI347373, AA773349, AA287318, AA187540, AA854659, AI637840, AI566584, AA305439, AA451739, AA287399, AA255886, AA689402, AI961717, AI624071, AW444697, H24906, R59469, AI636153, AL037168, AW151230, AA256684, AA694475, AI861989, H02063, H26485, H13596, AA256683, AA348853, AA336954, H02078, H44525, AA354340, Z43173, AA337732, AI565023, H44530, AW297887, R75751, H26324, AA336921, R41517, AA775352, AI638129, R18527, AA337380, AI870106, F11589, AI954448, AA336373, AA336703, C02323, AW391166, AI858347, AW379208, AA634601, AA449368, AI611218, AA262646, AI860650, AA282616, AL119399, AL119457, AL134524, AL119324, AL042544, AL119443, AW392670, AW372827, AL119391, AL119464, U46346, AL134902, AW384394, AL042614, AL119319, AW363220, AL119484, AL119497, AL119335, U46341, U46350, AL119341, Z99396, AL119363, AL119522, U46349, AL119355, U46347, U46351, AL119439, AL119444, AL119396, AL119483, AL119418, AL119496, U46345, AL134518, AL134528, AL037205, AL134525, AI142132, AI142137, AL134538, AL042970, AL042450, AL042965, AL042975, AL134529, AL042542, AL043019, AL042984, AL043029, AL042551, AL043003, AL119488, Z84466, U82319, Z98172, AC005225, AR060045, AL035687, Z65447, AB026436, AR060234, AR066494, A81671, AR054110, AR069079,

2071	HWLQX67	898192	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1462 of SEQ ID NO:2071, b is an integer of 15 to 1476, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2071, and where b is greater than or equal to a + 14.</p>	AR043113	<p>AL120532, AI587307, AI093091, AI769686, AI050667, AI372945, AA250932, WI5253, N49198, W39173, AA894448, AA975408, Z21307, AA846588, AC002554, Z73358</p>
2072	HCRNK75	898355	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2210 of SEQ ID NO:2072, b is an integer of 15 to 2224, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2072, and where b is greater than or equal to a + 14.</p>		<p>AI799804, AA863125, AI823427, AI377127, AW168810, AA293513, AW088676, C17686, AI289654, AI207850, AI890720, AI805626, AI824271, AI344359, AI300131, AA574103, AI686750, AA315866, AI709243, AA252863, AA585439, AI758734, AW375857, AA348962, AI525556, AA585453, Z28355, AA585440, AI525316, AI535639, AI541510, AI546855, AA336552, AI541374, AI556967, AI525328, AI541514, C15189, AI541523, Z30131, AI526180, AI546999, AI541534, AI525306, AA585101, AW265668, AA585434, AI526140, AI541509, AI541365, AI382291, AI546828, AI541017, AI525431, AA585356, AI557731, AI557807, AI526194, C16300, AI547039, AI526196, AI541317, AI546945, AI535813, AI557799, AI540967, AI557262, AI525653, AI541508, AI541307, AI541535, AI557082, T11028, AI546899, D61254, R29445, AI557787, R28735, AI546875, AI541205, AL040510, AL040625, AL045817, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463,</p>

	AL039915, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AL043467, AL041159, AL045725, AL044186, AL041140, AL036500, AL134123, AL043950, AL040193, AL040252, AI142134, AL044037, D57491, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL040332, AL040617, AL040553, AL045684, AL040745, AL044029, AL040370, AL043677, AL046442, AL040839, AL041752, AL040149, AL043775, AL044165, AL043492, AL041602, AL045920, AL041278, AL038838, AL040253, AL044074, AL041635, AL045990, AL040458, AJ239433, AL044199, AL044187, AI525320, AL040263, AL040090, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL046392, AL041374, AL040052, AL043845, AL043537, AL039338, AL042135, AL044064, AL039316, AL043923, AL038983, AL043814, AL043848, AL041459, AL043570, AL041577, AL044258, AL044201, AL046850, AL038532, AL040768, AL037727, T23985, AL040576, AL044377, AL046994, AL040414, AL040571, AI546891, AL046914, AL044771, AL045753, AI557796, AL049007, AL044274, AL079878, AL049018, AL043468, AL079876, AL042245, AL040444, AL039744, AL043604, AL045857, AL046147, AL044015, AI535660, AL044583, AL042700, AL037341, AL042712, AL043201, AL046097, AL045991, AI557238, AL038822, AI525321, AL045671, AL046327, AI541013, AA585476, AL041168, AL049069, AI526184, AL043444, AL041246, AL040472,

	AL040238, AL041955, AL041347, AI540920, C16305, AR017907, I13349, A91965, I66498, I66495, I66494, I66487, I66497, I66496, I66481, A83642, I66486, A83643, I66485, I66488, I66489, I66490, I66491, I66492, I66493, A83151, I66482, I66483, I66484, X81969, A25909, AR062871, AR038855, I18895, A85395, A85476, AR062872, AR062873, AJ244004, AJ244005, AJ244003, AR037157, AF082186, A20702, A20700, AR008429, A43189, A43188, A91752, I63120, A98767, A93963, A93964, A98420, A98423, A98432, A98436, A98417, A98427, A32110, Y16359, AR038762, I44681, D78345, A86792, X83865, A84772, A84776, A84773, A84775, A84774, AR054109, AR067731, AR067732, A58522, A91750, A18053, M28262, AJ244007, A93016, I15717, A58524, I15718, A58523, E03627, I49890, I48927, A02712, A77094, A77095, I84553, A81878, A95051, I84554, A18050, A23334, A75888, I70384, A64973, A60111, A23633, AR007512, I08396, A60212, I05488, I61310, A60209, A60210, A60211, I00682, A60961, A60977, A11624, A11623, E00609, E13740, A11178, E01007, A10361, AR027319, A91751, AR027318, A68112, A68104, A06419, A21892, A23997, A68114, A89633, A89634, A21895, A05160, A08030, A20502, I62368, A35537, A35536, A02136, A04664, A02135, A04663, U94592, I08395, I06859, AR043601, A11245, AR028564, AR002333, A60985, A60990, A47368, A60987, I19516, I19517, A76773, A22413, A29109, A32111, I63560, AR009152, AR009151, I63561, I63563, I03331, E12615, A02710, AR035193, E14304, A07700, A13393, A13392, AR031488, I13521, I52048, A27396, AR027100, I44531, I28266, I21869, I44516, A70040, E16678, A82653, E16636, I08196, I07249, I08776, I15353, I25027, AR068508, AR068510, AR068509, A63954, I91969, I26929,

2073	HOGDR01	898418	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 806 of SEQ ID NO:2073, b is an integer of 15 to 820, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2073, and where b is greater than or equal to a + 14.</p>	<p>I44515, I26928, I26930, I26927, I58322, I58323, AR003585, I25041, A24783, A24782, A92133, A95117, A90655, A38214, I56772, I95540, A95096, A95106, A95105, AF149828, I01995, I08051, AR031566, I60241, I60242, AR038066, A20699, E00696, E00697, E03813, AR027099, Y09813, AR051652, AR051651, Z32836, AJ230935, D50010, AJ230902, AR035975, AR035974, AR035977, AR035976, AR035978, I05558, AJ230972, A58521, A91754, AR031374, AR031375, AR020969, A92666, A92668, A92667, A92665, E12584, AJ230951, A70872, AJ231009, A22738, I08389</p> <p>AI940071, AW383315, AW383305, AW383297, AW392670, AL134527, AW384394, AW363220, U46351, AL119443, U46347, AL119522, AW372827, Z99396, AL119319, AL119324, AL119457, U46350, AL119439, U46349, AL119484, AL119391, AL043003, AL119483, AL119497, AL119401, AL119363, AL119444, AL119355, AL119396, AL134525, AL037205, U46341, AL134531, AL134902, AL042984, U46346, AL119418, AL119399, AL119335, AL042542, AL134538, AL043019, AL042544, AL042965, AL042975, U46345, AL042614, AL043029, AL042989, AL042450, AL042551, AL119464, AC003965, AB026436, AR069079, AR066494, AR060234, A81671, AR054110, AR043113</p>
2074	HHATR06	898427	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1473 of SEQ ID NO:2074, b is an integer of 15 to 1487, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID</p>	<p>AI797684, AI478733, AI990902, AA456267, AI751749, AI970534, AI379565, AW239200, AW294114, AA427646, AI751750, AA594137, AA947297, W95460, AI057073, AA405402, AA788855, AW068453, AW068711, AW177719, AI341112, H73236, AW167569, AA232452, AA427487, AA041328, W95567, AI652166, AA853047, H74164, R34003, AA041304, W02069, AI341381, AW192052, AA580289, AL119457, AL042544, D30965, D31176, AL119324, AL119399, AI918637, AL046052, AL042866, AI690472,</p>

<p>NO:2074, and where b is greater than or equal to a + 14.</p>	<p>AI918408, AL045891, AI689380, AI433206, AI699857, AW024793, AI345261, AI096694, AL134902, AI241884, AI371228, AI582912, AW022102, AI446405, AI564160, AI918554, AI273919, AA838230, AW083489, AI865942, AW194441, F36003, AI499104, AI887775, AW151974, AW079432, AW058275, AI918634, W79826, AA291456, AI952584, AI634930, AI580213, W33163, AI281412, AW008253, AI686081, AI921922, AA749024, AI125845, AI472476, AW085866, AA480074, AI313320, AW022494, AI313352, AI310920, AI307503, AI671284, AW020288, AI612732, AI933926, AI336585, AI334913, AI349266, AI349787, AI334452, AI344938, AI701897, AI312146, AI312339, AI309431, AI340537, AI312165, AI345258, AI349288, AI349628, AW196105, AA835966, AI340610, AI307459, AI343140, AI349971, AW168693, AI307507, AI348879, N22406, AI340639, AI311604, AR035969, AF117959, AF108357, L24896, U77351, Y00093, AF085809, AR068466, E12579, AR060234, AF074604, X62773, M30514, AF093119, A07647, AJ006417, A94751, AF188712, AL050092, AL133568, AL137461, AJ012582, M79462, AL133629, AL117644, X60786, I46765, AL137658, AL110280, AR011880, AR034830, I96214, AL049464, AL133098, AF102166, I00734, AF022813, E00617, E00717, E00778, U89295, E02253, AL137665, A90832, I29004, X66417, U79414, AF161699, Z22828, U92992, AF155119, AL096720, Y11435, AF113694, X54971, Y10080, AF040723, AF051325, AL133081, AL133014, A52563, X87224, AL133054, L40363, AL137276, E02914, AL110171, Y10655, AF118064, AL049314, AL137558, L31396, U68387, AL137656, AF010191, L31397, AF151109, AF140224, AL110159, X76228, S63521, U92068, AF148129, AF081366, Z72491, S69385,</p>
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2075	HLQDM07	898541	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2372 of SEQ ID NO:2075, b is an integer of 15 to 2386, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2075, and where b is greater than or equal to a + 14.</p>	<p>AF120268, X92070, AF026124, U57352, Y14634, U91329, AL137267, Z48796, AC007458, AF017437, AL133636, S61953, L78810, AF213396, U67328, AF114818, AF113676, AL137534, AF016271, AJ004832, S75997, AL133558, E15582, AL117585, S73498, AF118558, E04257, AR005011, U80919, AP000130, AP000208, AP000247, AL035458, AC005488, AF144700, AL050280, AF159148, E15324, AL080158</p>
2076	HDPBW68	898651	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3879 of SEQ ID NO:2076, b is an integer of</p>	<p>AI806250, AA455382, AI084580, AW368035, AA005065, AI088155, AI566044, W92235, AA706063, W92236, AA299662, AA004847, H56718, T77776, AA002009, AA227236, AI922495, AA722941, AA456022, AA299663, AA001788, H56641, AL119457, AW392670, Z99396, AL119319, AL119355, AL119324, AL119497, U46350, U46351, AL119363, U46349, AL119391, AW372827, AL119483, AW384394, AL119341, AW363220, U46347, AL119484, AL119443, U46341, AL119444, U46346, AL119439, AL119522, AI142134, AL119396, AL119335, AL043033, AL037205, AL119401, AL134538, AL134542, AL134528, AL134902, AL134531, AL134533, AL119418, AL119399, AL042984, AL119496, AI142132, AL134525, AL134536, U46345, AL119464, AL042450, AL042614, AL043029, AL042544, AL043011, AL043019, AL042542, AL042965, AL042975, AL043003, AL042551, AL132826, AF169677, U42975, AB026436, AR066494, AR060234, AR054110, A81671, AR069079</p>
2076	HDPBW68	898651	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3879 of SEQ ID NO:2076, b is an integer of</p>	<p>AI797914, AA232727, AI264354, AA242826, AI373844, AI421152, AI693559, AA293798, AA242961, AI681069, AA987481, AA253496, AA865918, AA394280, AA699441, AW193319, AA534330, AI246675, AI690035, AI921391, AI696791, AI696792, AI962498, AA478182, AA845215, R02588, AA501984, AA253392, AA975909,</p>

2077	HISCJ15	898814	<p>15 to 3893, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2076, and where b is greater than or equal to a + 14.</p>	<p>AI141321, AI359321, R02707, AI370136, AI424757, AA236520, AA065210, AI369930, AA064845, AI217878, AI470976, AI640699, AL119324, AL119457, AL119399, AL042544, AL119443, AW392670, U46346, AL119355, Z99396, AL134525, U46351, AL119319, U46349, AW372827, AL119483, AW384394, AW363220, AL119497, AL119484, AL119363, AL119391, U46350, U46347, U46341, AL119444, AL119341, AL119418, AL134902, AL119439, AL119335, AL119522, AL037205, AL119396, AL119401, AL134538, AL134527, AL119464, AL042450, AL043033, AL042984, AL119496, AL134536, U46345, AL042433, AL042614, AL043029, AL043011, AL043019, AL134542, AL042542, AL042965, AL042975, AL043003, AL042551, AF113925, AF126484, AF149774, AC006027, AB026436, AR060234, AR054110, AR066494, A81671, AR069079</p>
2077	HISCJ15	898814	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3219 of SEQ ID NO:2077, b is an integer of 15 to 3233, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2077, and where b is greater than or equal to a + 14.</p>	<p>L44393, AA434356, AI524406, AW062354, T31737, H14980, Z43676, N40577, R08471, N25869, AA256007, N41934, N28530, AA08513, T92387, R02302, AW383005, AB011165, AF117754, AR022169</p>
2078	HCYBH77	898946	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2967 of</p>	<p>AW376967, AW268365, AI433801, AW087894, AW192424, AA573318, AW376970, AA186803, AI744244, AA179345, AW264850, AW239439, AI860613, AA128911, AI800522, AA179578, AI270669, C18854, AA186804, AA505958, W63641, W52261, AL036582, R50884, H17527, AA033538,</p>

			SEQ ID NO:2078, b is an integer of 15 to 2981, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2078, and where b is greater than or equal to a + 14.	AL048651, AW149146, AA305384, AW273640, R50765, C17088, AA356773, AI698410, R07093, AA134840, AI985957, AA808140, AA367305, W79703, AA381398, AF123887, AF144695, AR018794, AR018857
2079	HPJAS61	899130	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2444 of SEQ ID NO:2079, b is an integer of 15 to 2458, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2079, and where b is greater than or equal to a + 14.	AA630313, AW007113, AA056282, AI302077, AI685736, AI416978, AW275894, AW236942, N24240, N63404, AW167603, AI031828, AI624036, AA622513, AA857986, AI274802, N63417, AI394098, AA543071, AI075944, AI347803, AI134813, AA010795, AI991823, AA608692, AW188444, AI765847, AI580486, AA488368, N38923, N30935, AI093100, AI453400, AI434592, AI300853, AA457119, AA455498, AI880713, AW050861, AI274340, AI309910, AW207240, AA633538, AI188595, H98907, AI308095, AI863003, AA705931, AA165111, AI066618, AI261549, AI470214, AI282600, AI635033, AA011134, AA583904, N95694, AA973598, AI623738, AA035768, AA977967, W70190, AI027298, AW370853, AW167630, AW083766, AW166334, AA599424, AI864628, AI831364, AI610395, AI245485, AA649888, AI672081, N72372, AA293614, N95723, H77346, AI270457, R53634, AA829048, AA062785, AA479044, AA826668, T65751, H58487, H81750, AI092643, AA190410, AW300733, AW264761, AW020656, AI750198, W78204, N68016, AW242190, N41700, W70063, H81751, AI750199, AA781623, AA298516, AI247290, AI925804, W57582, AW026566, AI932535, AA724052, AA488500, AW150513, AI309181, AA627576, AA430543, AA430544, R87874, AA369400, H77345, AA468680, AA853269, N52644, AA130245, AA157200, AI160148, AA834736, AA705668, AI124918, AA156892, AA948320, AI609381, R45075, AI701123, AW178256, AA376537, AA296785, AA190800, H52032, AI673683, H57644.

N94353, AI433372, AW167732, H84917, AA298517, AA971449, T65826, AA729816, AA588601, AA477526, AA455499, AI623220, N43974, AI954242, AI401060, AW002427, AA369401, AI927604, AI654863, N35904, AI636667, AW025939, AI587427, AA297348, AI493644, C01875, AI290317, H85246, AA916819, R51967, AI249975, Z20911, N46495, W70132, AI583578, AI886415, AW075382, AI590043, AL045413, AI539260, AI333104, AI559752, AI538850, AW051088, AI284517, AI621341, AI927233, N25033, AA808175, AA579232, AI696603, AI371251, AW162194, AI114703, AI680467, AA587590, AW089233, AL120056, AW089844, AI691088, AI491904, AI539800, AL042365, AW073898, AI623941, AW059828, AI491852, AW020397, AI267185, AI587156, AW327527, AI860027, AI684164, AW409862, AL046944, AI590415, AL038505, AI282669, AI524654, AI698391, AA514684, AI445611, AI811603, AL047100, AL047344, AI475371, AI435253, AI401697, AI341838, AW128834, AL079799, AI473208, AI926330, AI683395, AW083572, AI872847, AI884303, AI890223, H41759, AI479577, AI627714, N75779, AI866465, AI270183, AL121496, AL036954, AW118553, AI950877, AI805671, AF178532, AF200342, AF200192, AF204944, AF117892, AF050171, AF051150, AF201468, A74674, I48978, AL049466, I89947, X93495, AF013249, I09499, AB029065, A77033, A77035, I33392, AB026995, A70386, S36676, AL137488, U75604, AR029580, X66871, AF076633, A91160, U87620, A91162, AL117587, AL080140, AR034821, AL133049, U49908, AF017437, AF111849, AB016226, AF119336, AF111851, AL133088, AF082526, A07588, AF118090, AF022813, AL137558, AF158248, I48979, A21103, X79812, AL122123, AF126247, AJ238278, AF112208,

	U72621, U89295, AR038854, AL050208, AL133062, AL133010, AL137480, Z97214, AL050092, AF079763, A03736, A86558, A76335, AL110296, AL137529, AL137256, AL137533, A08910, AL137550, A08909, AL137554, S82852, U35846, AF102578, AL110159, A08908, AL133558, Y11587, AL050277, A08913, AL137271, AF061795, AF151685, AL122121, AL133560, AL133637, AF115392, AL133606, AF026816, U75932, AL117648, Y10655, AF113019, Z82022, S83440, AF106657, AL133619, AL137461, AF100931, AL137530, AF200464, E06743, S78453, AJ000937, AL137560, X80340, AF141289, AF185614, AL117435, U51587, AL137627, X76228, AL137557, AL133081, AL117416, AF026124, AL122100, I32738, AB029066, L13297, A08907, AF111112, AR020905, AL137478, AL137281, U37359, AL110224, AJ006417, J05277, A41575, A65340, Y10936, E12580, U83980, A08912, AL110221, AF090900, U73682, AR068466, AL080148, AF002672, A18777, AF097996, U92068, E03671, AL122050, AL137258, AL080234, E01314, U57352, AL122118, U80742, AF061573, E05822, AF115410, AL080124, U37312, A08456, AL133084, Y11254, AF131821, X89102, AF183393, AL133557, U68233, I92592, AL117457, AF058921, AF162270, S76508, AF019298, AF057300, AF057299, AL137479, I68732, A08911, A18788, I89931, X97332, L04849, AF119337, AL049324, Y10823, AF067728, AL050024, X83544, AF031147, S77771, X84990, AF106697, I89944, I89934, I08319, I49625, AL049283, AL133080, AF087943, AF107847, AF069506, AF176651, AF068615, AF159615, AL133624, AF036268, AL137284, U95114, A52563, AL133113, AL110280, A58524, A58523, AL136884, AF090934, E12579, AL049382, U53505, L30117, AF047716, AL133075, U62966, AL117440, AF185576, AF047443, L04504, AL137463, AF182215, S61953, AL137657

2080	HCRMK25	899224	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2636 of SEQ ID NO:2080, b is an integer of 15 to 2650, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2080, and where b is greater than or equal to a + 14.</p>	AA704087, AW373819, AW380680, AI752796, AW385372, AW373887, AI906013, AW385383, AA428419, AW780507, AA668306, AL036004, AA600085, AI751526, AI751512, AA780554, AW239513, W49750, AA773949, N36271, W63574, AA780819, AA457563, AI753606, AA464937, AA454895, AW385419, AI905876, AI752292, AA181456, AW068389, AI751743, AA457359, AI751229, AI752349, AI365966, AA293647, AA554805, AI752176, AI751283, AA489941, AA457511, AI751586, AA788961, AW352231, AI752829, AA487731, AA789233, AI750701, AI752337, AA487393, AW373901, AA457430, AA704140, AA457469, AI905974, AA169848, AA703999, D79055, AI752205, AA434290, AA489933, AI752293, AI750735, AA434353, AA489957, AA780675, AW352222, U53087, AI205280, AA248177, AI752797, AI752212, AI751798, AW373788, AI752270, AW373787, AI925580, AI752737, AW373833, AA121851, AA456983, AI752171, N34179, AA458778, AA454883, AI751523, AA679516, AA176804, AI751887, AW393626, AI751886, AI751494, AW384994, AI751927, W24625, W00702, N56826, H92997, AI750235, AA359326, AA663346, AI751476, W52302, R71009, AW373902, AA486177, AW067996, AA961963, AA594126, AA476858, AW385424, AW067845, AW068346, AI751810, AA774078, AA399202, AI751928, AI750740, AI676195, AW373802, R73275, AW068267, AW373874, AW370489, AW373808, AI751228, AI750278, AW373834, AA136731, AL039650, AI906084, AI752350, AA359001, AA453822, AA780557, AA453844, AA318038, AA373942, AA668143, AW373845, AI751652, AI745640, AW366380, AW370462, W24650, AA477811, AI963017, AA293756, H53916, AA169864, AI684315, AI752599, AW068076,
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	AI910190, AA359296, AI902828, T53721, AI905031, AW362721, AA373886, H82181, AA434473, AA334411, AI922681, AI963366, AI752830, AA457291, AA668375, AA443350, R84909, AW067859, T29584, AW385969, AA339992, AA379018, AA326804, AW373804, AI677812, AA456909, AA489802, AI675919, AA373933, AI696990, R64077, AA669870, AI571571, AA378055, AA375369, AI752739, AA669843, AA376383, AA359377, N39634, AW384992, H94226, AA599521, AW363460, AA852286, AI752736, AA853052, W00543, AI750767, AI963411, T48176, AA373229, AA218722, AA853386, AA332082, AA359277, AW384999, AA372196, AA333869, AI796681, AL035880, AW082115, R69349, AA359183, AA359695, AA852609, AA366521, AA434079, T49549, AA853491, AA669422, AA377936, T53285, AA377860, AA595560, AA346953, AW068393, AA852626, AA359195, AA256215, H39823, AI801622, AA852524, T54840, AA070541, T49912, AI751621, AA359783, AA853295, AA339830, AA375308, AA507247, AA852945, AA853931, A91174, Z74615, K01228, AF153062, Z78279, U08020, J00836, V00401, AR048312, AB015438, AB008373, U03419, M14423, Y15915, AB015440, S64596, U62528, AF017178, X98705, S67482, M17491, X06269, AF169346, AF077329, Y15918, D83228, Y15919, M10571, X98707, X98708, Y15913, Y16346, J00112, Y16341, Y15914, Y15912, Y08643, Y15916, J00111, A65495, M12199, A65496, M23213, Y16342, Y16344, M11162, T49700, T50912, T53375, T99669, R01522, R31653, R32921, R35743, R65723, R72798, R77142, R79511, R91193, H50793, H52341, N45401, N50267, N94504, W05288, W05816, W25354, AA167235, AA167584, AA173693, H88449, AA987726, AA094624, AA852897, AA853611, AA853652, AA853657, AA853692, AA853790, AA852117, AA852484, AA852780,

2081	HNTRV11	899632	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2288 of SEQ ID NO:2081, b is an integer of 15 to 2302, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2081, and where b is greater than or equal to a + 14.</p>	AA852811, T49210, T49936, D45437 AI192806, AI636301, AW070460, AI264134, AI808610, AL047490, AW337234, AW272771, AA621722, AA902441, AW338001, AI572907, AW088299, AA630592, AW241806, AW338392, AW119186, AW361987, AI598101, AW079856, AI932992, AA314261, AI380908, AI571554, AA431144, AW362042, AI741945, AW029103, AI669353, AA906312, AA905193, AA424741, AI246132, AA188213, AI092692, AI129947, AA969200, AA495870, AA774660, AA835498, AA825370, AA432163, AI520696, AI624063, AI026883, AA888774, AA186360, AW390429, AI692914, AA262302, AA156547, AI289833, AI678753, N76487, AA676856, AA190635, N36869, AA512918, AI392858, AI571545, AA262303, AA216711, AI266014, R69932, AA625353, AA313402, AI589292, AI129465, AI765154, R62335, AI457879, H48412, N94959, AI218172, AI221051, AA577253, AA086067, AI439435, AA112358, AI241626, R80350, W03228, AA086066, R78186, N67050, W19215, AA192424, AI537627, AA694468, AA112357, R79484, AA192529, R77146, AA188562, AI250628, H73378, AW362686, T60051, H45701, AI281554, N95029, R62336, AW192059, H56566, AI445365, R09672, AA191164, W19537, T78819, H45752, H38567, N50462, N47345, AA973983, R62945, AI583154, AI342227, T60098, R45931, H98238, R23380, AA621137, R70102, H12066, R35435, AI583186, H03315, AA369106, W25341, R80240, AI263665, N31081, AI803872, AA757310, AI591357, T29421, R76607, R67545, AA622166, H16044, T82361, R71554, R71501, R09561, AI351896, N46139, N89847, AI802973, AA188660, F07783, H71048, H54185, H03316, F08108, R62997, T94841, AW338108, T94886, AL045149, H97241, AA630804,
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2082	HWLOU33	899644	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1944 of SEQ ID NO:2082, b is an integer of 15 to 1958, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2082, and where b is greater than or equal to a + 14.</p>	AA344563, F02937, AW316643, AI635890, H56567, H71561, R70103, AI985724, N27010, AA218591, N72946, R76608, AW366579, N49618, T73663, AI587589, M31516, I41330, I05091, I09215, M15799, U88576, S67775, M30142, I09216, I05094, A65264, AR031710, AR066586, AR066589, AF052110, M64356, S51407, AB003312, AB003313, AB003314, AB003316, AB003317, AR016514, AB003315, AR016512, AR016513, Z63791, I64711, AR016518, AR016516, I64714, M64652, AB003319, AB003318, S72858 AL037051, AL040992, AL042909, AL039109, AL045353, AL039423, AL039128, AL045337, AL039386, AL038531, AL044407, AL038025, AL036973, AL045341, AL037726, AW235098, AL038837, AL039659, AL039074, AL039625, AL039108, AL039648, AL039678, AL039629, AL037615, AL037639, AL039410, AL039538, AL036238, AL036196, AL039564, AL039566, AL036765, AL036767, AL044530, AI142134, AL038983, AL039509, AL037727, AL079878, AL039156, AL037436, AL037295, AL037435, AL037027, AL037335, AL049018, AL040576, AL037443, AL037343, AL036167, AL038532, AL037323, AL040370, AL040529, AL037601, AL037049, AL040052, AL044186, AL038822, AL041159, AL038838, AL039338, AL043814, AL043923, AL037742, AL039076, AL043845, AL040617, AL043868, AL041577, AL041459, AL044064, AL040294, AL041635, AL044037, AL042135, AL046994, AL040768, AL046850, AL045753, AL041752, AL045684, AL040625, AL041133, AL043570, AL043848, AL041374, AL043627, AL041523, AL041730, AL044074, AL041602, AL043492, AL040839, AL040510, AL043441, AL045671, AL046442, AL036158,
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AL036998, AL046360, E13740, I13349, A10361, A91965, A22413, I19517, A76773, A35537, A35536, A92636, A02136, A02135, A04663, A04664, I08051, AR062871, A84772, A43189, A43188, A84776, A84773, A84775, A84774, A20702, AR067731, AR067732, A58522, A20700, A91750, AR062872, AR062873, A11245, AR027069, A20701, A52326, A04710, AR035975, AR035977, AR060673, AR060676, A49428, AR028564, A08458, A08457, AR035974, AR035976, AR035978, A00782, A02741, A14595, A18755, A25856, I12245, A13038, A29289, A49695, A49696, AR017907, A95051, A02712, A18050, A23334, A75888, I70384, A60111, A23633, AR007512, A18053, I06859, AR043601, A92133, I40851, A60983, I60241, I60242, A02710, E12615, AR035193, A07700, A13392, A13393, AR027100, I28266, I21869, AR036903, A70040, I66498, I66497, I66496, I66486, X73004, V00745, I19516, E02221, E01614, E13364, E03165, Z96142, Y16359, I01992, I84554, I84553, A51384, AR009151, D78345, I66495, I66494, I66487, AF118808, AF082186, AR037157, AR054109, A86792, A98420, A98423, A98432, A98436, A98417, A98427, AJ244004, AR022240, A85476, AR038762, A85395, X68127, AR031374, A49700, AR031375, A58521, AR020969, AR025207, AR036905, A38214, A44171, I56772, I95540, AR018924, A63067, A51047, A63064, AR018923, A48774, A63072, A48775, AR068507, AR068506, AR015960, AR000007, AR015961, A85477, A85396, AJ244003, A25909, A98767, A93963, A93964, I63120, A95052, AR043602, AR043603, A95117, A23998, A81878, I18371, U87250, A64973, A58524, A58523, A64081, A24783, A24782, E14304, I03343, A97211, A27396, A49045, E16678, E16636, I44516, A82653, A93016, I25027, D28584, I26929, I44515, I26928, I26930,				
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2083	HAPN050	899661	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1233 of SEQ ID NO:2083, b is an integer of 15 to 1247, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2083, and where b is greater than or equal to a + 14.</p>	<p>I26927, A58525, I49890, AF156296, AR000006, E16590, A58526, A91753, M28262, I00079, X16234, AF156294, I18302, AJ244005, AJ230933, Y11923, AR064707, A67220, A90655, Y11926, X83865, A15078, I00074, D88984, I03665, I62368, AR031488, I13521, I03664, I52048, I44531, E12584, AJ244007, I66485, I48927, AR009152, E00523, AR038286, I25041, I92483, I00077, AF156303, AR008430, I19525, E03627, AR063812, AR066494, A68112, A68104, A60212, A60209, A60210, A60211, I15717, I15718, AF156299, A77094, A77095, I08396, I07429, I00682, A11624, A11623</p>
				<p>AI081543, AW024140, AA742572, AW327486, AA593332, AI239527, AI362956, AA977531, AA865071, W76539, AA988767, AI240922, W56688, AW406326, F25349, W56696, AI590417, AA773777, N80724, AW273295, N72158, AA356111, AA588352, AA576887, W52200, AA594466, AI002202, AW410884, F36934, T23069, AA335562, AI910397, R52145, AI962231, AA304020, AA593340, F35721, T08422, AA779395, D80166, C14331, C14429, D80038, D80227, D80195, D51799, D80269, D58283, D59859, D51423, D59619, D80210, D80391, D80240, D80253, D80043, D59275, D80212, D80193, D80196, D80188, D59927, D80219, D59502, D81030, D59889, D57483, D80022, D80366, D59610, D80378, D80045, D50979, D80164, D50995, D80241, D59787, D80024, T03269, C75259, C14014, D59467, C15076, C14389, D51060, D81026, AW178893, D80134, AI557751, AA305409, C14407, D51250, F13647, D80268, D80949, D58253, D80168, C14227, W21835, D81111, D51079, AA305578, AI989565, AW177440, D51022, AW179328, AA514188, AW178775, AW378532, D80522, D59695, AW352158, AI910186, AW377671, AI905856, AW369651, D80248, D52291, Z21582, D80251,</p>

	AW178762, D51097, AA285331, AW177501, AW177511, C14298, D80064, AA514186, D80133, AW360811, AW352117, C05695, AW176467, AW375405, AW378540, AW360834, AW366296, AA809122, AW360844, AW360817, AW375406, AW378534, D80132, AW179332, AW377672, AW179023, AW178905, D80302, D80439, AW179220, AW352171, AW352170, AW377676, AW178906, AW177731, AW178907, AW179019, AW179024, D59373, D80247, AW177505, D80014, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, D51103, T11417, AW352174, AW179004, AW179012, AW178914, AW378525, T03116, T02974, D51759, D80157, AW177722, AW177728, AW367967, AW179009, AW178774, AW178911, AW378543, AW352163, C06015, C14344, AI535686, AW178983, AW352120, D80258, AW178781, D58246, D59503, AI525923, T48593, D51213, AI557774, AW378539, D59627, D58101, AW177723, D59653, D45260, AW177508, AI535850, AW367950, N66429, C14975, AW378533, H67854, C03092, D59317, H67866, AI535961, AL050297, A84916, A62298, A62300, AJ132110, Y17188, AR018138, X67155, A67220, D89785, A78862, A25909, D26022, X82626, D34614, D88547, X68127, AR025207, AF058696, A82595, AR008278, AB028859, I82448, AR016808, AB012117, A30438, Y12724, AF135125, A85396, AR066482, A44171, A85477, I19525, A86792, X93549, U87250, AR060385, Y17187, A94995, U79457, AB002449, AR008443, AR008277, AR008281, I50126, I50132, I50128, I50133, A45456, AR066488, AR016514, AR060138, A26615, AR052274, X64588, Y09669, A43192, A43190, AR038669, AR066487, AR066490, I14842, AR054175, U46128, D88507, AR064240, AR016691, AR016690, I18367, D50010, AB033111, A63261,

2084	HBSAK60	899776	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2115 of SEQ ID NO:2084, b is an integer of 15 to 2129, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2084, and where b is greater than or equal to a + 14.</p>	<p>AR008408, AR062872, A70867, I79511, D13509, A64136, A68321, AR060133, U87247, AB023656, Z32749, AF123263, AR032065, AR060382, X93535</p> <p>T18597, R28735, R29445, R45895, AA585325, AA585098, R29657, AI546875, R28892, R29218, R28965, AA585476, AA585101, AA283326, R28967, AA170832, D57491, D60844, R28895, D53472, AI557763, AI546971, AA585439, Z32822, Z28355, AI557262, D59436, AI557864, AI541356, C16300, AI557734, D61185, D61254, AI526140, C16315, AI541365, AI541013, AI525500, AI557740, C16305, C16293, D60765, AI541383, AI546999, AI546921, AI547250, D59751, C15406, D54897, D53161, AI546945, AI541374, AI525306, AI525856, D53447, AI541205, AA585155, C16292, AI526078, AI541517, AI546996, D55233, AI557731, AI525431, C15069, AI541535, AI547039, AI526184, AI525556, Z32887, AI525316, C16294, C15120, Z30131, D52835, AI541307, AI540967, AI547006, AI557787, AI557727, R29177, AI526194, C15737, R29179, C15762, AI541346, AI557807, AI546891, AI541523, AI526016, AI557084, D57186, AI525339, C16296, AI541527, R29262, AA585356, AI525320, AI547196, AI557758, AI547202, AI526191, AI541034, AI557408, R29172, AI557155, D60730, AI557602, AI540974, T19407, AI557718, AI557809, AI536138, C16290, AI526073, AA585453, AI526113, C14208, AI556967, AI557808, AI541321, AI557279, AI535660, T41289, AI526180, AI546829, AI535639, AI526109, AA174170, AI557039, AI540903, AI526195, AI547137, AI541422, T41329, Z33559, AI524904, AA514191, AI526024, AI526158, AI525656, AI526112, AI557533, AI525286, AI540920, AI541510, AI541345, D51433, AI546828, AI541506, AI546831, AI525332, D54850, AI541514, AI541027, AI557264, D59458, AI541415, C14723,</p>
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2085	HDPOD73	899866	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 774 of SEQ ID NO:2085, b is an integer of 15 to 788, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2085, and where b is greater than or equal to a + 14.</p>
2086	HWHHQ57	899885	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>

2087	HNFHY51	899913	<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1336 of SEQ ID NO:2086, b is an integer of 15 to 1350, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2086, and where b is greater than or equal to a + 14.</p>	<p>AW008642, AI568918, AW245195, AI095605, AA307509, AA425494, AA146920, AI079724, AA742403, AA628536, AA425289, AA393886, AI075449, AI301574, AW020330, AA148122, AA738372, AA633222, AI908262, AA465300, AA463585, AA393791, R15429, AI554546, R16169, AA629523, AI193861, N50479, AA234353, AI863835, AA770378, AI927526, AA463677, R24974, AA384622, AI289080, AA143495, AA516015, AI039133, AA305089, AI094204, AA234408, AA653256, AW026433, Z45471, Z41168, AA135180, AI541233, AA135354, AI654673, AA746823, AA428026, R45235, AW337352, AI907894, AA152118, N93532, AI363444, AA865095, T24569, Z20397, AA070991, AA070717, AW189792, AW170538, AA906520, AA143494, AA886922, AI382046, D50645, AC005726, AC004807, D50646, A74812</p>
2087	HNFHY51	899913	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 702 of SEQ ID NO:2087, b is an integer of 15 to 716, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2087, and where b is greater than or equal to a + 14.</p>	<p>Z99396, AW392670, AL038837, AL037051, AL036725, AL036418, AA631969, AL039074, U46347, AL039085, AL039564, AL036858, AL039156, AL039108, AL038509, AL039109, AL039128, AL036924, AW384394, AL119484, AW363220, AL037094, AL039659, AL038531, AL036196, AL039625, AL039648, AL045337, AW372827, AL036767, AL119457, AL037082, AL043003, AL037526, AL036190, AL119497, AL037639, AL119319, AL039678, AL039629, AL119324, AL039423, AL036238, AL038447, AL039150, AL119439, AL119391, AL119443, U46350, AL040992, AL042909, AL119522, U46351, AL119483, AL119363, AL119355, AL037077, U46341, U46349, AL119341, AL038520, AL119396, AL037726, AL119335, AL119418, AL039410, AL038851, AL039386, AL119496, AL036268, AL037085, AL119444, AL037205, AL134530, AL036998, AL036733, AL037615, AL134519, AL134531, AL119401, AL134132,</p>

2088	HTOHV42	900015	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1410 of SEQ ID NO:2088, b is an integer of 15 to 1424, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2088, and where b is greater than or equal to a + 14.</p>	<p>AL134527, AL134528, AL043147, U46346, AL037178, AL037027, AL042614, AL036679, AL119464, AL134533, AL042544, AL119399, AL042984, AL042965, AL042975, AL042542, AL134538, AL036765, U46345, AL036191, AL042989, AL036719, AL043019, AL042551, AL043029, AL042450, AI142134, AL037021, AL037054, AL036774, AL036836, AL036158, AR066494, AR060234, AR023813, A81671, AR064707, AR069079</p> <p>AI014506</p>
2089	HWLXO02	900162	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1212 of SEQ ID NO:2089, b is an integer of 15 to 1226, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2089, and where b is greater than or equal to a + 14.</p>	<p>AW373239, AW372628, N27996, AA377857, AA422157, AI808730, AW393029, R73350, AA326416, AW373220, R54681, AI827898, AI825876, AI650385, AI827701, AI888306, R50597, AI934499, AW006103, AI422225, AA524283, AI088893, AI422224, AI217369, AI380811, AI469281, AA494534, AA975272, N21338</p>
2090	HWLKM7 7	900249	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a</p>	<p>AW084558, AW409927, AW304724, AI745388, AW136749, AI979175, AI817727, AW134503, AA593923, AA573915, AI652793, AI675562,</p>

2091	HWMCI06	900555	<p>nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1618 of SEQ ID NO:2090, b is an integer of 15 to 1632, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2090, and where b is greater than or equal to a + 14.</p>	<p>AI683795, AI922809, AI983612, AI984843, AA573905, AI656045, AI983786, AI984139, AI380162, AI361395, AI936791, AI479830, AA588051, AI590585, AI673630, AI347176, AW206967, AW137010, AI288836, AW170399, AI287323, AW271527, AW197398, AW193824, AI380626, AI869939, AI371858, AI650707, AI861931, AI201641, AW050592, R00081, T53389, AA937517, AA552662, AW304869, AI015077, AI309572, AI262657, AI460271, AI932957, AI950720, AI652807, AA327548, R72802, R50426, AI634175, AI089131, AI986002, R47791, AI659375, AI986009, AI880486, AI418738, AI973094, H26655, AI719489, R52030, AA327517, AW272341, AA523545, AW241543, AA936966, AI918271, AI652616, AW197366, H26610, AI968929, D25775, AW087283, AA100205, AI880487, D84239, AC006950, I95742, AI479949</p>
2091	HWMCI06	900555	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2415 of SEQ ID NO:2091, b is an integer of 15 to 2429, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2091, and where b is greater than or equal to a + 14.</p>	<p>N52439, N77401, AA585439, AI525556, AI535639, AA585434, AA585440, AA585453, AI525316, Z28355, AI541510, AI546855, AI525328, AI541374, AI541514, C15189, AI541523, AI556967, Z30131, AI526180, AI546999, AI525431, AI525306, AI541534, AA585101, AL045991, AI557807, AI526140, AI541509, AI541365, AI546828, AI541017, AA585356, AI557731, AI526194, C16300, AI546899, AI541317, AI541535, AI547039, AI526196, AI546945, AL044029, AL036500, AL134123, AL043950, AL040252, AI540967, AI535660, AI557799, AI541508, AI541307, AI557262, AI535813, AI525653, AL045671, T11028, AL044771, AL049007, AL043468, AL042245, AL046147, AL044015, AL040768, AL044377, AI536138, AL042700, AL046994, AL042712, AL043201, AL040414, AL040571, AL046097, D61254, AI557082, AL037341, R29445, AL079876, AI557787,</p>

	AL043604, AL044583, R28735, AL048647, AL040510, AL040625, AL045817, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AI526144, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AL047593, AL043467, AL041159, AL045725, AL044186, AL041140, AL040193, AL044037, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL040332, AL040617, AL040553, AL045684, AL040745, AL040370, AL043677, AL046442, AL040839, AL041752, AL040149, D57491, AL043775, AL044165, AL043492, AL041602, AL045920, AL041278, AL038838, AL040253, AL044074, AL041635, AL045990, AL040458, AI541205, AL044199, AL044187, AL040090, AL040263, AL040294, AL040329, AL040082, AL044272, AI525320, AL041186, AL040148, AL041730, AL041523, AL043627, AJ239433, AL046392, AL041374, AL040052, AL043845, AL043537, AL039338, AL042135, AL044064, AL039316, AL043923, AL038983, AL043814, AL043848, AL041459, AL043570, AL041577, AL044258, AL044201, AL046850, AL038532, AL037727, T23985, AL040576, AL046914, AI142134, AI546891, AL045753, AL044274, AL079878, AL049018, AI557796, AL040444, AL039744, AL045857, AI546875, AL038822, AI525321, AL046327, AI541013, AL041168, AA585476, AL049069, AL043444, AL041246, AL040472, AI526184, AI557238, AL040238,

	AL041955, AL041347, C16305, AI540920, AL038761, AL040075, AA585438, T41289, T23957, AI557084, AI541506, AL080031, AI541345, AL045989, R29177, AI526073, AI557155, AI525203, AI541048, AI526187, AL042096, AI557279, AL037436, AL042346, AL133620, AB033076, AR017907, I13349, A91965, I66495, I66494, I66487, I66498, I66497, I66496, I66486, I66481, A83642, I66488, I66489, A83643, I66485, I66490, I66491, I66492, I66493, A83151, I66482, I66483, I66484, X81969, AR038855, AR062871, A91752, AR008429, A32110, I05488, I61310, A25909, A60961, A60977, AR062872, AR062873, I08196, A20702, A20700, A43189, A43188, A85395, A85476, A68112, A68104, A06419, A21892, A23997, A68114, A89633, A89634, AR067731, AR037157, AR054109, A21895, AR067732, AR028564, A05160, A08030, A20502, AR027319, A86792, A58522, A91751, AR027318, A58524, A47368, A84772, I19516, A58523, I19517, A76773, A84776, A22413, A84773, A84775, A64973, A84774, A29109, A32111, I63560, AR009152, AR009151, I63561, I63563, A60985, A60990, A98767, E14304, A60987, I08776, I15353, A81878, A93963, A93964, I25027, I26929, I44515, AR002333, I26928, I26930, I26927, I44516, I18895, E16678, I25041, A38214, I56772, I95540, A95096, A95106, A95105, I44681, AJ244004, AJ244005, AF082186, A92133, AJ244003, A91750, I07249, AR068508, AR068510, AR068509, A63954, I91969, I58322, I58323, AR003585, A98420, A98423, A98432, A98436, A98417, A98427, I63120, AR038762, I19525, Y16359, AR035975, AR035974, AR035977, AR035976, AR035978, I08051, D78345, A58521, X83865, A91754, AR031374, AR031375, AR020969, A18053, M28262, AJ244007, I15717, I15718, E03627, I49890, I48927, A02712, I84553, A95051, I84554,

2092	HCRPZ48	900696	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 888 of SEQ ID NO:2092, b is an integer of 15 to 902, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2092, and where b is greater than or equal to a + 14.</p>	<p>AL18050, A23334, A75888, I70384, A60111, A23633, AR007512, I08396, A60212, A60209, A60210, I00682, A60211, A11623, E00609, A11624, E13740, A11178, E01007, A10361, A93016, A35536, A35537, A02135, A04663, A02136, A04664, I08395, I06859, AR043601, A11245, A77094, A77095, E12584, U94592, I03331, A02710, E12615, AR035193, A07700, A13392, A13393, AR031488, I13521, I52048, A27396, AR027100, I44531, I28266, I21869, A70040, A82653, E16636, A62298, I62368, A24783, A24782, A95117, A90655, AF149828, A92666, A92668, A92667, A92665, I01995, AR031566, I60241, I60242, AR038066, A20699, E00696, E00697, E03813, AR027099, Y09813, AR051652, AR051651, A49700, Z32836, A62300, AJ230935, D50010, AJ230902, I05558, AA247997</p> <p>Z99396, AL038837, AL037051, AL036725, AW392670, AL036418, AA631969, AL039074, AL036858, AL036924, AW384394, AL039564, AL039085, AL038509, AL039156, AL039108, AL039109, AL039128, AW363220, AL119497, AW372827, AL037094, AL119457, AL039659, AL038531, AL036196, U46347, AL119319, AL036190, AL119324, AL119391, AL037639, AL119484, AL039625, AL039648, AL045337, AL036767, AL037082, AL119443, U46350, AL037526, AL119522, U46351, AL119483, AL039678, AL039629, AL119363, AL119355, AL039423, AL036238, U46341, AL119335, AL038447, AL039150, U46349, AL119341, AL040992, AL042909, AL119396, AL119418, AL134531, AL039386, AL037077, AL119496, AL119439, AL036268, AL134533, AL042984, AL037085, AL038520, AL119444, AL037205, AL037726, AL134528, AL036998, AL043003, AL036733, AL039410, AL037615, AL038851, AL119401, AL134527, U46346, AL042614, AL037027, AL119399,</p>
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2093	HCRMU04	900777	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1801 of SEQ ID NO:2093, b is an integer of 15 to 1815, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2093, and where b is greater than or equal to a + 14.</p>	AL037178, AL042965, AL042975, AL042542, AL134538, U46345, AL036679, AL042989, AL042544, AL036719, AL043019, AL042551, AL036191, AL043029, AL042450, AI142134, AL036765, AL037054, AL119464, AL036774, AL037021, AL036836, AL036999, AL036886, AL036158, AR066494, AR060234, AR023813, A81671, AR064707, AR069079, AB026436, AR054110 AA258714, AA258479, AW372226, AA625114, AI337232, AW372227, AI739102, AA505288, AI418892, AA551238, AA853934, AI936957, R52096, AA481002, R46499, AW166753, AA770298, AW071542, HI1704, AI582908, AW007814, AI086723, AI338746, AI340064, AI094613, AI096869, AI922132, AI357394, AI423481, AW087313, AI421759, AI356823, AA287330, N94480, AA524286, AW005778, AI922862, AW191028, AI566341, AA470698, AI421557, AI361016, AI359797, AI362874, AI863909, AI880712, F09352, AI922424, AA873767, AA481480, AA291405, N20109, AI263664, AA570059, AI913894, W94068, AI381877, AI193950, AI364237, D54296, AI539565, AA789159, AA853935, AA482101, AI360188, Z40719, AA400811, AI214242, AA629142, AA095376, T58139, AI034063, N31573, AI040574, H43298, AA953460, AW131152, AI146352, AW054979, AI648405, AA921717, AW375413, AI445988, AI888216, AI083784, AW136876, AA421021, AI271977, R22588, AI360977, AW188664, AI085523, AI613427, AW057831, AA679957, AA524336, M79269, AI598125, AI620319, H65453, AI078721, F30056, AA701072, W23927, W94067, W22794, AW265783, AA480986, D87444, AL049539 T27258, AI634860, AI767588, AA894544, AI991689, AA404730, AI635347, AI195244, AA411217, AW236952, AW293268, AI640606, AW072654, AI633129, AI360887, AW274499, AI096717,
2094	HHBEA82	900784	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by</p>	

			<p>the general formula of a-b, where a is any integer between 1 to 5445 of SEQ ID NO:2094, b is an integer of 15 to 5459, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2094, and where b is greater than or equal to a + 14.</p>	<p>AW081124, AI373594, AW117198, AI424073, AA404665, AA236948, AW274623, AI471566, AI041076, AA742216, AA977785, AI979247, AW073726, AA436906, AI129863, AI359758, N24934, AA491080, AA971157, AI081860, AA490894, AL135446, AI077569, N32934, AI167862, AI623813, AA746317, AI581166, AA804498, H28620, AA293454, AA906102, AA293745, T27536, N29816, AA640194, H97513, W73436, AI359073, L44338, AI040170, AA931607, AW079283, AI018416, AA235854, AA386013, AA307874, H94085, AA782504, AA742947, W37849, W69386, AA604174, AI540240, AA805133, AI695574, AI537063, AI337935, AA411218, AI371459, W73359, AI422480, W74279, R50230, R07065, R31685, H94073, AA731784, AA434174, AI357532, AI687230, T27535, AA579916, AA588389, AW103819, W69387, AA101857, AI873792, AI951278, AA577407, AI701686, Z22014, Z98524, H83873, C00310, R50175, Z24849, AA152394, AI244588, AA904357, R67423, AA761110, AA860891, AA935867, AI126673, N30780, F00170, D29461, AA377229, AI932570, AA397568, AA399529, AA730516, N99583, AA679080, AI382296, AA374839, Z98525, AI362551, AI913234, AI741350, AI920850, AI018184, AA702114, R81654, D29114, AA152500, AA148355, H94072, N41550, W37848, AF106037, AF222340, AF183569, AB011097</p>
2095	HWHG93	900838	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2071 of SEQ ID NO:2095, b is an integer of 15 to 2085, where both a and b correspond to the positions of</p>	<p>AI922425, AW190231, AW003584, AA528226, AI815200, AW006766, AW385445, AW190883, AI337868, AI983250, AW262130, AW337212, AW305087, AI587497, AI826854, AI640371, AI218233, AI337958, AW373439, N93894, AW000789, AA927991, AA071469, AW373440, AA513750, AI688284, AI696797, AA922948, AA857092, AI246042, AI920995, AI624419, W92531, AI491929, AI828286, AI379231, AI091871, AI584063, W72225,</p>

			<p>nucleotide residues shown in SEQ ID NO:2095, and where b is greater than or equal to a + 14.</p> <p> AW204980, AI818524, AI378538, AI280799, AI674870, AA449300, AI295019, AA431859, AI608680, AI435229, AI627567, AI587133, AI445568, AI354309, AW305146, AI587049, AW338230, AW440094, AI084022, AA449749, AA431858, AI366084, AA505877, W77968, AI911667, AW130716, N64004, AA976403, AW337258, N32415, AA449032, AW136886, AI124030, AA528219, AI453434, AW193263, AI431982, AI631423, AI952361, AI223458, F37472, AI401365, AI290429, AW132036, AA429960, AI333455, AW058441, AA024772, AI950830, AW276587, AI357328, AI587493, AA295018, AI220027, AI360535, AW338970, H87071, AI453327, AW263304, AW044542, AW006613, AI950575, AW316754, AW304759, H16121, AI252225, AA705737, AA024771, AA335712, AI580689, AA295688, N32424, AI583059, H44092, D62000, N56835, AA602994, D79675, AI537354, D62999, AA347786, D62623, AW263293, D62595, AA330758, H15818, D62097, D62477, H14917, AW380238, D62131, D79867, AA371169, AA834426, AA339113, AW263466, D62031, AI536580, AW292336, AW198171, AW192650, D79597, AA176165, AI932668, AI432477, AI802265, D61938, AI280000, AA705749, AI699012, D63012, D62525, AA642685, D61902, AW262566, AA082155, AA297695, C16543, H14624, C16137, AI686490, D62783, H87723, AI624168, AI949192, AA297550, C02046, AA095691, H29095, AA093657, AW385441, H28991, N56478, D61986, AI921253, AW029179, D79835, AA329099, AW089105, N83254, AA295743, AI648663, AW021588, AW161579, AI608936, AI637584, AI498067, AW301409, AL039086, AL121496, AI281772, AW169671, AI811344, AW081255, AW198090, AW059713, AI362637, AL045266, AI476046, AW088134, AI933589, AW190042, AI922676, AW088903, </p>
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	AI921248, AI289629, AI633125, AI468872, AI539771, AI699011, AI538829, AI499285, AW302988, AW103371, AW073994, AI537677, AI909697, AI269862, AI868831, AI922901, AI537273, AI889376, AI524671, AI884469, AI874166, AI670009, AI802542, AI796743, AW081298, AI783504, AW268122, AI625701, U88567, AF017989, E16093, D50462, AF017986, I48979, I48978, AL049452, I89947, AF113013, I33392, AF090934, AL137463, A08916, A08913, AF090901, AL133093, A08910, AL133080, A77033, A77035, AF183393, AL122050, AL133075, A08909, I89931, I49625, Z82022, AL117435, AF113019, AL080137, AL050149, AJ238278, AF104032, Y11587, AL122093, AL050138, AF106862, U91329, AF017437, AF113677, Y16645, AL137557, AF017152, AF177401, AL050393, AL049300, E07108, AL049382, AL137459, AF125949, AL110225, A65341, AL137271, AL117460, AF090903, AL080124, AF078844, AF118094, AL133640, AL110221, AI2297, X65873, AL122121, AL137550, S78214, AL110196, AL117583, AL133557, AF079765, AL137527, X98834, A93016, AR011880, AL049938, Y11254, AL133560, S68736, AB019565, A03736, AF113694, AF113691, AF153205, AL049466, AJ000937, AF113699, X84990, AF090900, AF146568, AL080060, I03321, AF091084, X82434, AJ242859, AL050024, AF118070, AL049430, E02349, AF111851, AL122098, AL117457, AL050116, AL133016, AF125948, AL050108, AF090896, U72620, U00763, AL080127, X72889, U35846, A58524, A58523, E03348, AF158248, AL050277, AL137538, AL117394, AF113690, AL049464, U80742, A08912, AF113689, AF118064, AR059958, AF113676, AL133565, X63574, AL122123, AF090943, AL049283, AL049314, AL117585, L31396, AL096744, AL050146, U42766, AL133606, L31397, X96540, AL122110, E07361,

				<p>I42402, X93495, AF097996, AL080159, AF087943, X70685, AL133113, AF067728, U67958, AF119337, I09360, I26207, AL133072, AL137283, AL110197, AL137648, AL133077, E15569, AF061943, AL137521, AJ012755, A93350, AL137560, Y14314, AL137294, AF026816, AL133104, AL133014, AR000496, U39656, AL137556, I00734, E00617, E00717, E00778, AL137480, AL122049, E08263, E08264, AF026124, AF111112, A45787, AL050172, AL133568, AF106827, AF111849, S61953, AL137523, U58996, AF003737, AL133067, Z72491, AF000145, AF185576, AL110280, AR038969, I17767, U96683, I09499, AL117440, AR038854, E05822, AL080074, Y09972, AL137476, I41145, AF162270, AL137526, E06743, U68387, U49908, AL122118, AJ006417, AF057300, AF057299, AF079763, A07647, L19437, L30117, M30514, AL133098, AL122111, E08631, Y07905, AF008439, E04233, AF210052, X87582, X62580, AF081197, A90832, AF106657</p>
2096	HTNA180	900919	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1767 of SEQ ID NO:2096, b is an integer of 15 to 1781, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2096, and where b is greater than or equal to a + 14.</p>	<p>AA910946, AW370766, AA773478, A1147187, AI627563, AW245820, AW084163, AA827996, AI654448, AI445660, AI925490, AW370781, AI261225, AA444056, AI860488, AI339998, AA662124, AA826649, AA916472, AW206617, AI082028, AW293553, AA588398, AA781244, AA100487, AA444074, AA662089, AW363526, AW169569, AI619549, AI272817, AA099576, AA626735, AI476556, AA563618, AW005594, AI669785, AI694033, AW370776, AA100486, AA130971, W31417, AA838073, AA826578, AI869910, AI694055, AW128848, AI285208, AI813824, AI700255, AA548132, AW374533, AA983604, AW245780, AI688313, AA102239, AW374457, AA337602, W04536, AA774600, AA384358, R00451, W92449, AA336823, W92448, AI401368, AW087441, AI269310, C06239, AA130960, AI991651, AA016201,</p>

	M85399, R00450, AI625478, T04952, AI654393, AW438953, D30892, AA954856, AW374478, AI804856, AA100202, AI272981, AW439050, AW374583, AA927954, AW374501, AW374602, AI934259, AW051233, AW152182, AI345347, AW027904, AW169624, AW050578, AW020419, AI554827, AI612750, AI915291, AI872555, AI678395, AI670767, AI866082, AL119828, AI827154, AI673785, AW059828, AI538850, AI500061, AI890907, AI689388, AW189415, AL037454, AL047344, AI884318, AA928539, AA620560, AW088697, AA502794, AI345608, AW117919, AI538885, AW088628, AI521799, AW020693, AI357940, AI340603, AI540759, AI345396, AI345471, AI538055, AI628833, AI251221, AL039086, AI249257, AA420722, AI345745, AI287477, AI540674, AI446373, AL038605, AI570912, AI284131, AI824576, AI690748, AI866573, AA176980, AI784219, AI242248, AI340519, AI355779, AI334714, AI434453, AI926669, AI922215, AI133559, AI783498, AI648436, AW161579, AI335363, AA808311, AI281888, AI284517, AI923989, AI697306, AI701885, AI348847, AI860027, AI553645, AI340627, AI889372, AW090013, AI872423, AW238688, AI623941, AI494201, AI345527, AI348854, AI473536, AI584153, AI340511, AI799195, AW151766, AI698391, AI800370, AW022699, AI554343, AI311892, AI475139, AI434464, AW162194, AI280655, AI345415, AW020095, AW074869, AI889189, AW022102, AA641818, AI868204, AA848053, AI633125, AI344935, AI624529, AW080079, AI538564, AI554245, AI579991, AL046200, AL046466, AW163834, AI859464, AI620859, AF020797, AF067146, Z83841, I48978, A93350, I89947,

	A08913, A08912, AF177401, AL133113, A57389, AJ012755, AF111112, AL137271, A08910, Y14314, X81464, A08909, A08908, X83508, I03321, AR011880, AF132676, AL117394, AR038854, AF061836, AF100931, L13297, AL133075, Y09972, A08916, I89931, AL133557, AB007812, AL117457, X60786, I49625, A08907, AL133093, AL137550, AL133560, A18777, AF113694, AF067728, AL137478, U55017, AL133080, AL049314, E02349, E06743, U49434, AL137574, X84990, I09499, AL133565, AL133031, AF081197, AF081195, Y11254, AL110225, AL117432, I89934, A21103, I48979, AL050277, U95114, AL136842, AL137275, D16301, AL050092, S76508, AL122123, AF031903, AF126247, I33392, AL133640, AL117416, AF153205, AF111849, X67688, AF026124, AL122118, E02221, E01614, E13364, AF032666, S68736, I46765, AL133054, AJ000937, A77033, A77035, AF112208, A49139, AF185576, U42766, X98834, A08911, AF077349, AL137539, AR013797, E03348, AF090934, AL049283, AL049430, AR038969, A76335, AL117626, AF118090, AL117583, AL137459, AF080622, AL122100, AF090900, S77771, U78525, AF090901, AL122121, AL133112, I89944, X63410, AL133067, AF028823, AL133558, E05822, AL080159, D89079, U58996, AF079763, AF061981, AL137294, U35846, AL133665, AF067790, AF017437, AL137526, AF054599, X87582, AL110196, AF087943, X83544, AL122106, AF111851, AL137538, AL117649, AF090903, A07647, AL050116, AL023657, AL137533, AL080140, AL137656, AL133568, U88966, U00763, AR000496, U39656, A91160, AL050149, AF146568, AL137273, AL133606, AL137521, A91162, AC006840, AF162270, I41145, E00617, E00717, E00778, AF113677, AF176651, U87620, E08631, AF090896, AL133072, M79462, I68732, E12747, AL049465, AL122110, A18788, AL137429, AF113690, X82434,

				<p>AF114170, AL122049, I09360, A65341, AL050024, AF113699, X80340, AR029490, AL133081, Z82022, AL133098, AL117460, AL117585, AL080158, X92070, AL117578, AL137712, AF026008, AL133077, AL050155, AF106657, Y07905, AF139986, AL050393, AL117435, AL137292, AJ005690, AF008439, X72889, D83032, S78214, E07361, S61953, Y10080, S83456, AL137283, AF097996, Y11587, AF106827, E12580, AL050278, I17767, AL049466, A08915, L31396, AL049452, AL050146, A03736, L31397, AL137267, AR068753, AF026816, AF119337, AF091084, AF003737, AF113019, AF113689, L19437, AF090943, U67958, X06146</p>
2097	HCRPO45	900966	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3081 of SEQ ID NO:2097, b is an integer of 15 to 3095, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2097, and where b is greater than or equal to a + 14.</p>	<p>AL110406, AL042617, AI207822, AI921758, AW103491, AI951947, AW245787, AW151593, AI494358, AI262716, AW245429, AW341614, AW378336, AA894688, AI801517, AI076235, AI828126, AA904279, AI675937, AI460342, AI128285, AW294715, AI745086, AI077325, AL042068, AA115771, AI624138, AI082386, AA459947, AW167502, AI540099, AI635602, AI364603, W67744, AW341954, AW078482, AI434372, AI953308, AW261951, AW005837, AI633304, AI623521, AI057179, AI368673, AA004519, AW168441, AA552497, AI591419, AI564983, AA974973, N23827, AI692827, AA627254, AA448321, AA314542, AW080692, AI205001, AI368672, AI872494, AW074327, AI872477, AI758700, AI680387, AI334786, AA641824, H14234, AW051418, W67145, AI493453, AI184117, AI378974, AA377758, AI720317, AW082444, AI363715, AA074282, N25080, AW190481, AI439839, AI032415, AA552221, AI825222, AI473352, AW378284, AI198651, AI432602, H65846, AA729339, AI784394, W32168, F28183, AW370330, AI870988, H69297, H28474, R54785, AI356300, H58452, AA113878, AA868529,</p>

2098	HWLWF60	900991	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1400 of SEQ ID NO:2098, b is an integer of 15 to 1414, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2098, and where b is greater than or equal to a + 14.</p>	AA470038, AA115770, D54636, AW263948, W92582, AI866290, H69392, C17841, C17347, AA934363, AA416938, R54975, AI669735, AI690365, AA343797, AA400959, W32110, AI270015, AI859811, AW393711, H61829, AA968922, AI351193, AI911491, AA814464, AA291849, H58453, AA421734, AA434017, AI000272, AA322101, N87914, AA477387, AA994996, AW241334, AW090284, AA296340, AA400890, AA291727, AA411311, AI669906, T29492, AA477140, AA291696, AI561336, W92583, AW378332, AA004602, H61828, AA907778, AA614865, AI933538, AA904512, AW378303, AI279499, AW372174, AI560558, C17284, H49899, N83492, AA587988, AI684276, H65933, AA581394, R62494, AI696415, AI299631, AW378274, H39968, AA460036, AA641823, AI964054, D20567, AW370328, AI479661, AW237023, AL117507, M22636, X04654, X07401, AL117399, X84841, M57939, X06815, X06814, M57937, X06812, X06816, X17453, X06811, M57936, X07402, X07403, X06819, X17451, AA456813
				AW368386, AW238539, AA029705, AI831658, AA307163, AI880448, AI826080, AI809445, AI749767, AW392516, AI719057, AA216597, AI924141, AI753535, AA425993, AA405599, AW189150, AA405525, AA293346, AL038035, AA706635, AI831455, AA126431, AA570492, AW148955, AW102926, AI609085, AW072010, AI951355, AA449167, AI189194, AI828698, AI014547, AW168852, AI148422, AA305104, AI147540, AI499218, AA431664, AI625708, AI565713, AI148267, AW118509, AA315632, AA745627, AA826234, AI144475, AW169850, AW304105, AA425864, AI075654, AI018481, AI339069, AI023124, AA457092, AA577508, AW050921, AA602566, AA431311, AA633001, AA229090, W00840, AI199803, AA405536, W45253,

	AI269467, AA630008, AI066482, N98500, AI167735, AA854101, W69773, W80519, AA926675, AA643707, AA563837, AA476496, AW372478, AA305369, AI961469, AI271734, AA668561, AI128691, AI744974, AA130762, AA910180, AW392522, AI065149, N25901, W31066, W80520, AW372358, AA405545, AI148336, AI597627, AA312742, AW404947, AA877983, N30924, N62547, AA570576, AI077917, AI017451, AA399426, AI832854, W42994, AA053466, T29753, AA253057, H73254, AA253113, W69812, N20887, AI832728, AI867470, H90836, N47983, AI749221, R71367, AA618597, AI831831, AA207047, AI332369, AI122584, AA868214, AI024184, AA661572, AI090382, AA828075, AA902522, T09075, AA507590, AL038034, AI873238, R94441, AA456122, H94762, H90175, AA291363, AA079386, AI370481, AW235530, AA551702, R75921, AI199826, AI470704, R16572, AI337531, AA542942, AA229089, AA954559, AA425960, R49107, AA300025, AA434489, AI470710, AA502581, R36025, AA434394, AW383377, AA464298, H74177, AI085238, C03394, AA454676, T35432, AA216663, AA427687, T35371, AI148635, AA309695, AA853985, H94767, AI189496, H42261, AA706062, H04146, AA333748, H94732, T35471, N75087, N69495, W22599, AI084540, N55794, H94735, AA352774, AA327217, AA904802, AW391877, H42193, AA403284, AA570044, AA365296, R71368, AW367180, AA207046, H04145, AW195997, AA866125, AW054856, AI041636, AA364530, AA505415, AA628797, AA079385, AI240316, R11219, AI241103, AW389429, AW440462, AA299828, N51187, AA426256, AA977681, AA303937, AA357438, R26412, N52317, N79215, AA654730, AA654815, AA429043, T32469, AA164587, AA658950, AA907646, AA300026, AA296444, N90989, AI952123, AA523768, R16631, R11277, AA428055, AI768287, H24905, AW367183,

AA844041, AA527916, AI783869, Z46157, AA126575,
AA532371, AA578044, AA427432, AF077030,
AF151812, AF091085, M30773, AL137521, X63410,
I48978, X66871, AL117460, U75932, AR068753,
AL049382, AL137548, AL137476, A15345, U58996,
AL080126, A08910, AF115410, A08909, AB016226,
A08908, AF100931, E05822, AF039138, AF039137,
L13297, AL137560, AL023657, AL137550, I89947,
A08907, M30514, A08913, AR038854, AF113677,
AF112208, A08912, A08911, AF126247, A77033,
A77035, X06146, AF017790, AF047716, AF091084,
AF090934, AL122049, AF090943, AF118092, I17544,
AB007812, AL137529, AF125948, S76508, AL137537,
AL133558, AL133081, U53505, AF159615, AL137554,
AL110225, E01614, E13364, AF057300, AF057299,
I68732, AF113691, AR020905, AL137271, U42766,
X70514, AL110221, AL133623, I89931, AL137557,
E15324, S77771, AL049452, AF031147, AJ005690,
I49625, U54559, AL137429, AL137657, AL133637,
A07588, E02349, AF079763, U55017, X67688,
AF106697, AF026124, AF058921, AL137533,
AL117435, U49908, I48979, A70386, E02152,
AL137292, A18777, AF017437, AF145233, AJ238278,
M96857, AL122093, X67813, AL050393, AL080163,
I89934, I29004, AL080124, AF113690, AL133067,
AL109672, A65341, X80340, U67328, AL137281,
AL117457, AF036268, A03736, AL137479, A17115,
A18079, AL136884, AL049996, Y10080, AF038847,
Z13966, X84990, AL122100, E06743, I32738,
X63574, M92439, AF061795, E01573, E02319,
AF151685, AL133010, AF013214, AF013249,
AF111851, AF210052, E12580, AF076633, AF200464,
A91160, AL133016, E01963, U49434, AL080074,
AL080148, A91162, AF061943, AL137300, A21103,
L04849, AL122110, AR013797, X82434, AR034830,
I96214, Y16645, AL049300, S36676, A08916,

				AL080159, AR029490, AF115392, AF176651, M85165, AL137459, Z37987, AL137711, AL133075, AL137558, AL049466, AF199027, U62966, AF177401, AL096728, AL137488, AL050155, AF030513, X83508, AF055917, X66417, AL049324, AF107847, A07647, L31396, AF090896, AR034821, L31397, AB029066, AL137716, U67813, AF106945, X76228, AF067728, AJ000937, AL133080, AR009628, AL137530, AF111849, X59812, AF094480, AL080234, AL133557, AL137254, AF137367, AF114168, M80340, AC004200, A08456, A57389, AL137526, S63521, AL117463, AL050277, AL049426, AL050172, AR038969, X92070, AR060156, AF090886, AF061981, AR068466, Y07905, Z97214, AL050366, AR011880, I89944, AR022283, AC006197, I00734, AF026816, S75997, AF117959, X00474, AF028823, AF082526, Y10823, X79812, AL122050, AL133640, AF118090, AA053235, AA613827, AA918028, AA654613, AA411037, AI038134, D11685
2099	HCNCY58	900993	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2157 of SEQ ID NO:2099, b is an integer of 15 to 2171, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2099, and where b is greater than or equal to a + 14.	AI732436, AA579242, AI954628, AI763064, AA053424, AI493412, AW134526, AA534814, AI967966, AA053043, AI992267, AI342785, AI304542, AI913775, AI864467, AI733752, AW376406, AL134524, AI142134, AL038983, AL037727, AL039643, AL041347, AL039432, AL037443, AL037343, AL037335, AL037436, AL037323, AL049018, AL038838, AL041238, AL047012, AL044125, AL047170, AL040463, AL047219, AL044162, AL040193, AL040621, AL043538, AL047183, AL043496, AL040464, AL041324, AL045817, AL041098, AL040119, AL037435, AL041133, AL044186, AL041096, AL038822, AL040625, AL038532, AL040322, AL041163, AL038761, AL047057, AL040617, AL040510, AL040075, AL044037, AL040149, AL041358, AL041296, AL043467, AL041346, AL041086, AL045684, AL041246, AL041197,

	AL041752, AL040576, AL043923, AL043814, AL043677, AL041635, AL040839, AL043845, AL041233, AL040294, AL045753, AL043492, AL041602, AL040553, AL046442, AL044064, AL041459, AL044074, AL040472, AL041577, AL040444, AL041292, AL040052, AL041730, AL041523, AL043627, AL041277, AL041159, AL041374, AL041955, AL046850, AL040768, AL040155, AL043848, AL043570, AL042135, AL046994, AL046914, AL045328, AL041142, AL039316, AL046392, AL044272, AL045671, AL041168, AA327091, AL045920, AL040529, AL046330, AL045989, AL042096, AL044258, AL047036, AL040332, AL040148, AL040458, AL044187, AL045990, AL040128, AL040745, AL040370, AL044199, AL040342, AL039360, AL079878, AL040571, AL039338, AL037341, AL044274, AL040285, AL041131, AL039744, AL041186, AL040091, AL042898, AL041051, AL044165, AL043941, AL040414, AL043444, AL040090, AL040168, AL041140, AL046327, AL079852, AL043775, AL041227, AL044201, AL037295, AL040253, AL040082, AL045857, AL038745, AL040329, AL045725, AL041278, AL040263, AL040255, AL134110, AL039915, AL043612, AL040238, AL044529, AW339763, AI525306, AL037279, AL049069, AL045327, Z99396, AL047163, AI557262, T11028, AI541535, AI547295, AI557799, AL041344, AI526194, AL041210, AL038837, AA174170, AL037051, AL036725, AL045211, AI557796, AA585101, AA631969, AL039074, D61254, AI526144, C16300, AL039085, AI541390, AL039564, AL039156, AL040385, AL039108, AL039109, AL039128, C15189, AI535660, AL039659, Z28355, AL037526, AL038531, AL047037, AL042909, AL038651, AI541307, T23957, AI541013,

	AL039625, AL039648, AI557807, AL045337, AL036924, AI526140, D29033, AL037094, T23888, AL039678, AL039629, AL039150, AL039423, AF147790, AR064707, AR066494, I18895, AJ230935, AJ230902, AJ244007, I05558, AR023813, I08396, X07299, AJ238010, I48927, AR062871, AJ230951, A95051, Z32836, I84553, A92133, I84554, M28262, A02712, A18053, I06859, A23334, A75888, I70384, AR043601, A60111, A23633, A18050, I60241, I60242, AR017907, I66498, I66497, I66496, AR062872, AR007512, I66486, A84772, AR062873, A84776, A84773, A84775, A84774, AR067731, AR067732, A58522, A91750, I15718, AF149828, A60212, A60209, A60210, A60211, A02710, E12615, AR035193, A07700, A13392, A13393, A43189, A43188, E13740, AR027100, I28266, I21869, I13349, A22738, A20702, A10361, AJ231009, A20700, AR060234, AJ230867, I15717, A35536, A35537, AR038762, A11245, A02135, A04663, A02136, A04664, Y16359, D78345, I08395, A58524, I08389, A58523, I62368, AR031566, A85395, A85476, E03627, I66495, I66494, AJ244003, AJ244004, AJ244005, I66487, A90655, A93016, I44681, I03331, I00682, I08051, AJ230972, X83865, A86792, AF082186, A98767, A20699, E14304, A77094, A77095, A11623, E00609, A11624, E00696, AR031488, I13521, E00697, A81878, I52048, A93963, A93964, A27396, I63120, A95117, I49890, I44531, A11178, E01007, AR037157, AR054109, A64973, E03813, A25909, A91965, A24783, I44516, A24782, A70040, I66482, AR009151, I66485, I66483, I66484, E16678, A82653, AR038066, AR027099, E16636, AR051652, Y09813, AR038855, AR051651, E12584, AR064706, U94592, D17247, A93923, Y11449, I01995, AR008429, A93916, Y11447, I25027, I26929,

2100	HCNDA61	901111	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1172 of SEQ ID NO:2100, b is an integer of 15 to 1186, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2100, and where b is greater than or equal to a + 14.</p>	<p>I44515, I26928, A98420, A98423, I26930, I26927, A98432, A98436, A98417, A98427, AJ231028, AR022273, A81671, AR069079, AR051957, D50010, AB025273, D13316, A70869, A93931, A70872, X81969, Y11458, A22734, E17098, AB026436, A85203, ALI33053, AL122101, I19525, AL133074, AR054110, A06631, AJ230845</p> <p>AI799005, AI478852, AI825946, AW205093, AA639927, AI684054, AA634246, AA630382, AI193494, AI873043, T94447, AA573526, AI566445, T98050, AW294597, T98141, T94534, AI940596, AI940601, AI922766, AA931283, T24595, AI623271, AA648186, AI023258, AW369427, AW176607, AI971154, AI888177, AA992910, AF061022, AF061024</p>
2101	HCNUB65	901125	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3095 of SEQ ID NO:2101, b is an integer of 15 to 3109, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2101, and where b is greater than or equal to a + 14.</p>	<p>AW009763, AI660234, AI660957, AW361534, AW361532, AW361521, AI802756, AW361520, AI802693, AW361523, AA508854, AI721275, AA581198, AW361522, AW009764, AI687981, AW361528, AA296955, AI721121, AA297150, D25727, AI582072, AA305409, AA514186, D80166, D58246, C14014, AI535686, D80439, D81026, D51221, D51050, H67854, D80022, D81030, D81111, D80133, D80157, D80212, D59619, D80210, D80240, D80219, D80064, D57483, H67866, D59859, D59551, D80196, C14227, D80391, D59787, D80251, D51799, D80164, D80024, D80268, D80366, D59889, D80188, D51423, D59317, D80253, C14389, Z21582, C14973, D59653, D80227, C15076, AA809122, F13647, D80247, C03092, D80258, C06015, D59610, D80195, D59474, T11417, D58283, D59503, D59275, D80248, D80045, D50979, D59502, D80269, C14331, D80014,</p>

				AA305578, D59467, D51022, D80038, D80043, D50995, C16955, AI525912, D51759, D80302, D58101, D80522, C05695, C14957, D59927, T03116, D45260, C14046, C14344, D80241, C14407, D80193, AI525920, D51103, D59627, AI525235, AA514188, D80168, D60010, AI525215, AI525917, AI525923, D59373, D80378, D45273, Z30160, C14298, AI525242, Z33452, T02974, AI525222, C75259, AA514184, D51053, D80949, AI557774, C05763, AI557751, AI525227, D51213, D59695, D51079, T02868, H67858, AW369651, C13958, D52291, C14077, AI525237, D31458, AI525925, AI525216, AI525238, D50981, D80228, N66429, AI525219, AI525228, T03048, AI525239, AI525969, AI525907, AI525908, AI525903, AF127036, AF039400, AB017156, AF095584, I95746, AF039401, A62300, A62298, AR060385, AR008277, AR008281, AR018138, AR008278, I14842, AB028859, AJ132110, AB002449, A82595, A84916, AR054175, AF058696, I79511, X64588, X67155, X68127, AR016691, AR016690, U46128
2102	HWLRB02	901128	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1424 of SEQ ID NO:2102, b is an integer of 15 to 1438, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2102, and where b is greater than or equal to a + 14.</p>	AA974396, T69960, T69910, AA321203, AI769017, AA729017, AI125450, AI608864, AA815245, AI473420, N54352, AI702478, H95603, AI052817, H38939, AA644692, R09543, R02194, AI216124, AW176420, H86594, AI432644, AI623302, AI431307, AI431316, AI431238, AI432666, AI431230, AI431235, AI431246, AI432653, AI431323, AI431321, AI431315, AI432654, AW081103, AI432650, AI432677, AI431257, AA218744, AA218768, AI431328, AL042729, AI431312, AI431231, AI432655, AI431310, AL042420, AL042655, AL042842, AL042508, AL042931, AL042853, AL045327, AL042533, AL043166, AL042832, AL042741, AL047611, AL135012, AI431350, AI431347, AI431318, AL042802,

	AW084068, AL042787, AI432657, AL042515, AI431247, AI431354, AL043295, U46344, AL045328, AL040207, AL042488, AC022517, AC003983, AL122126, AC007284, AL135922, AC004943, AC004147, AC009263, AC006270, AL049777, AC004253, AL035687, AL096707, AC004617, U52112, AF001905, AC005005, AC005004, Z72519, AC007876, AC005548, AC004843, AC008080, AC007649, AC005821, AF029308, AC004986, AC004831, Z97353, AF042484, AL020997, AL035653, AC006397, AP000500, AP000952, AC005544, AC005411, AC002525, AC002523, AL031274, AL049589, AL117667, AL031120, AP001063, AB008681, Z84814, AC008170, AC006238, AP000968, AC006212, AC005632, AF165176, Z95704, AL031388, AC007021, AP000475, AC006383, AL049797, AC004972, AL022400, AC003087, AF064863, AC006464, AL034371, AC004478, AL080239, AC005915, AC000119, AC004019, AC005220, AF001550, AL035467, AC005349, AC006840, AL031668, AL079352, AL023775, AC005951, AL031230, AC007156, AC005863, T49155, T49699, R07004, R40742, R40742, H06492, H30564, H40677, H86072, H86543, H86569, N71755, W39372, W86503, W92466, W96135, AA013379, AA016189, AA017476, AA019443, AA021123, AA021310, AA028068, AA031658, AA035574, AA054248, AA059113, AA059194, AA102640, AA135206, AA151930, AA152111, AA156568, AA190486, AA227020, AA227565, AA236317, AA253218, AA256134, AA256047, AA258804, AA258712, AA419606, AA418879, AA430505, AA428585, AA429539, AA492046, AA513740, AA514540, AA548372, AA557441, AA568471, AA602564, AA604253, AA610240, AA568809, AA618500, AA618602, AA639730, AA576999, AA668780, AA729826, AA738262,

2103	HSDKL35	901202		<p>AA748351, AA769191, AA826910, AA838222, AA856578, AA887478, AA903993, AA923484, AA934762, AA953033, AA973742, AA977546, AI083719, AI095039, N55802, N56369, W29115, AA641436, AA643059, AA170840, AA411709, AA453677, AA479240, AA669335, AA670172, AA447746, AA779698, AA782736, T26327, AA909244, AA968939, Z40403, Z41712, F07314, AI261269, AI273214, AI274001, AI275808, AI280684, AI197914, AI287863, AI289883, AI301333, AI335020, AI335856, AI367668, AI380398, AI347030, AI436465, AI457810, AI417451, AI469090, AI471619, AI492303, AI559582, AI498211, AI498922, AI567950, AI582535, AI423965, AI1149145, AI151207, AI627930, AI205031, AI224159, AI537852, AI589440, AI342557, AI609698, AI610646, AI633238, AI636060</p>
2103	HSDKL35	901202	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2429 of SEQ ID NO:2103, b is an integer of 15 to 2443, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2103, and where b is greater than or equal to a + 14.</p>	<p>AW165999, AI818580, AI635849, AI768065, AI083757, AA581468, AI479682, AW243083, AA054686, H29261, H29344, AA774784, AA788898, AA563853, T61913, T74334, AI744782, T09341, AW058478, AW020551, AI654542, AI741569, AA364806, N46425, T11289, N51579, AI676141, T89040, T61976, AW408761, R17137, AA774891, AI750509, AI762849, AJ245620, AJ245619</p>
2104	HJPCX37	901253	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2505 of SEQ ID NO:2104, b is an integer of</p>	<p>AL120519, AL120518, AW167654, AI860695, AA878120, AW340140, AA824284, AI829215, AI858970, AI983809, AA723802, AA233673, AI910795, AA527075, AI687053, AI289782, AW195947, AA494414, AI680070, AW132045, AI368513, AW439152, AI688692, AI688681, C00730, AI697102, AW293340, AA524205, AA514491,</p>

2105	HPBEM10	901276	<p>15 to 2519, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2104, and where b is greater than or equal to a + 14.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1298 of SEQ ID NO:2105, b is an integer of 15 to 1312, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2105, and where b is greater than or equal to a + 14.</p>	<p>AI337294, AI858216, AI857575, AW022981, AI652837, AC005837, Y11274, A59344, AL122093</p> <p>AA287703, AA287702, AA365652, AA282618, AA927786, AW364617, AA027167, F24601, AI968421, AI913352, AI302397, AI040349, T56496, AA355129, AI984941, AI184494, AA480189, AI128765, AA027168, AA382209, AI935351, AB023172</p>
2106	HWBDL33	901333	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1857 of SEQ ID NO:2106, b is an integer of 15 to 1871, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2106, and where b is greater than or equal to a + 14.</p>	<p>AI263085, AI671224, AI741604, AW055187, H93009, AW057512, AA058688, AI800594, AW195361, AI740946, AW271301, AW292805, AA160279, AI302809, AA160278, AI769897, AI200257, AI628787, AI735273, AI458862, AI091306, AW272744, AI128201, AA716336, AI707638, AA031623, AI307309, N59386, AA421911, AW052091, AA088175, AI824017, AA449402, AA461046, AI635515, AA992750, AI699923, AI880867, AI597746, AA460478, W03796, AI239461, AI863568, AA448335, AA582895, AA449267, AI278475, AI691016, AI758904, H64963, AI278932, AA709030, AI418284, AI361585, AA045175, AA150151, AI634797, AA035209, AA045521, AI933321, H59637, AA035208, AA975342, AA917066, AI261533, AI300367, AI149430, T97469, AA502528, AI199994, AA974453, AA810540, AA411404, AA576365, F20467, AA040431, N47960, AI373386, AI684553, AI962642, AI474422, AW072561, AI824266, R97144, N73170,</p>

				AA731356, AI806247, T97468, AA502505, H13072, AA099553, H64964, T96890, T96889, R58859, AI161128, AA677863, H95741, AA380214, AA040644, T70436, H94235, AI305839, AA366448, AI743473, AI668883, AA366209, R97096, AA502417, T81549, AA361023, AA045294, AA976534, AA974771, AA465003, AI922795, AA441989, AW148422, AW182457, H13276, AA344621, N77074, AA713812, W01926, AA031704, AI733416, AA736644, AA040430, AA101990, N49171, AA781193, AA382998, AI148352, AW452710, AA152220
2107	H2LBA47	901375	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1295 of SEQ ID NO:2107, b is an integer of 15 to 1309, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2107, and where b is greater than or equal to a + 14.</p>	AI346914, AW361114, AA573910, AA573949, AA314779, AA573904, AA573811, AA573823, AI791286, AI791498, AA573762, AA308533, AI732541, AA314573, AA315990, AA307789, AA308019, AW362522, AA315862, AI925615, AI802703, AA315993, AA313200, AA316848, AA316249, AA552253, AA316525, AA552098, AI393251, AI926615, AA313549, AA508861, AA316634, AA552332, AA552296, AA314847, AA573769, AI446121, AA315069, AA581222, AW130226, AA552106, AW363214, AA552304, AA551912, AA316658, AA552492, AA574080, AA314181, AA552602, AA307590, AA315842, AA552328, AI888532, AA588112, AI318255, AI318551, AW362532, AI307602, AI452604, AA551820, AA315757, AA313418, AW351498, AW361505, AA584947, U54601, AW130541, AW182560, AA612996, AI691058, AI933755, AA527185, AA588123, AA316515, AI537454, AA581266, AI282560, AA583270, U54606, AA582738, AA535703, AW351551, AI732344, AA837983, AW361468, AI470732, AW044042, AI444965, AI652625, AI926800, AI919553, AW08048, AL036638, N71180, AW020397, N75771, AW020710, AW409775, AI557238, AI932458, AI698391, AW029401, AI818358,

	AW411235, AL038437, AL037454, AI568060, AW020592, AI627988, AA806719, AI254727, AI590043, AI537677, AW044029, AI525669, AW162194, AI446809, AA580663, AI538885, AI525653, AI866127, AI587121, AW020406, AI559872, AW161579, AI273179, AI589428, AI540674, AI582483, AL119791, AL040207, AI866608, AL045500, AW023863, AL038529, AW189802, AI612885, AI364788, AI572717, AI244136, AI817430, N99088, AW191916, AI539766, AW238730, AW172745, AI620810, AI541027, AL048482, AI866510, AI536912, AI539800, AA809974, AL121365, AW265004, AL121328, AW023338, AI859991, AI624293, AI355779, AW305233, AA983883, AI623941, AA127565, AW021717, AA715307, AI648567, AI541048, AI918449, AI621341, AI950688, AW132107, AA100772, AI680194, AI336575, AI859464, AW082623, AI923989, AI671642, AI494201, AL039390, AI690748, AI866465, AI335208, AW163464, AI874166, AI927755, AI499986, AW020480, AI628325, AI874151, AA911767, AI288285, AW410259, AA641818, AI348854, AI473528, AI366992, AA493647, AI500523, AA853213, AW163834, AI620302, AA904121, AA853539, AL037030, AL121270, AI567944, AL044207, AI002285, AI866469, AI435253, AA420758, AI539781, AI590943, AL039716, AW019988, AI500061, AI491710, AI557426, AI269862, AI521560, AI433157, AI348917, AI919500, AI309306, AI554821, AL045163, AI541056, AL043070, AW151136, AL046944, AI801325, AI569583, AI539771, AI866646, AI619587, AW023351, AW051059, N99092, AI349957, AW051088, AI866820, AI500659, AI889372, AI866461, AI345005, AI815232, AI718513,

<p>AR030953, AR058965, S68736, A91160, A76335, U91329, AL137480, U67958, X72387, AL133606, AF113019, I48978, AF111851, I89947, A08910, A08909, A12297, A93016, X66871, Y10080, A08916, AL137271, AL049464, AL122049, A18777, AR068751, AF090886, AF026124, AF100781, Y11254, AF065135, A08908, AF017790, I92592, A08913, AL117435, AL137523, U87620, A08912, AF106862, AJ005690, AL137557, AF185576, AR038854, AF090934, AL110196, L31396, AL137705, L31397, X63410, AF078844, AL137478, E06743, AL137574, AF061795, AF151685, S76508, U88966, AF120268, AF113676, AJ012755, I89931, AL023657, AL110218, E12747, I89934, AR068753, I49625, A08907, AF111849, Z37987, AL050170, AJ003118, X81464, AF067728, U58996, AL049452, AL117416, AF079763, AF153205, AL137488, AF090901, U35846, AL137476, AL080124, X79812, AL049283, U92068, AF087943, I03321, AL080154, I17544, E01314, AL137711, AL050116, AF177401, AJ010277, S79832, AF106657, AL050092, U42766, AF022363, A77033, A77035, AL110171, I48979, AF118090, AL049314, A90832, AL137529, AL122045, I68732, A15345, AF210052, A83556, AB016226, A65341, AL137640, Z72491, AF118092, AF031147, AF090903, AL137550, U68387, S83440, S77771, AL096751, AL133072, Z97214, AL137479, D83032, AF113677, E07108, AF146568, AF061943, AL122110, AL080074, AF017437, Y11587, AF176651, AL117585, A93350, AL133075, AL117457, AF158248, AL133031, AL137548, AF114170, S36676, A07647, AL133016, D16301, AL117440, AL110225, AR034821, E02221, X63574, I89944, AF111112, AL050277, AL133080, X70685, I09499, AL137558, AF139986, AJ006417, AF081197, AF081195, AR011880, A58524, A58523, A21103, Y10655, AF126247, Y10936, I33392, X80340, E02349, AJ238278, AF094480,</p>				
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2108	HCQA172	901415	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 929 of SEQ ID NO:2108, b is an integer of 15 to 943, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2108, and where b is greater than or equal to a + 14.</p>	<p>E08631, AL080140, AL137521, AF026816, U75932, S61953, S75997, AR020905, X82434, E03348, AL050024, AL122050, AL080159, AL133640, AF183393, X52128, U00686, AL096744, I66342, AF040751, AL137533, AF061981, U80742, I32738, U72621, AL080148, AL080126, AB008792, AL137292, AF104032, X56039, AB008791, I41145, X66862, AL049339, AF113699, AR029490, Z82022, AF162270, AL133557, AL080127, AL110221, AF090900, Y08769, AL122093, A23630, AL110222, AL133112, X96540, A08911, A18788, AL110159, AL049300, AR038969, AL137560, AL117583, A21101, AL133665, AF090896, AF137367, E01614, E13364, AL080163, U72620, AL133560, AL117648, AF067790, AL110280, AR013797, AL133637</p>
				<p>AI675865, AI075324, AI815198, AI634717, AI888294, AW151674, AI817063, AW369331, AW194118, AI380637, AI436796, AW166169, AA573742, AW369360, AA909945, AW152548, AW190856, AW364300, AI735767, AI080640, AA582017, AI445913, AA316115, AI678847, AA307697, AI475938, AW364225, AI921153, AA314225, AI888914, AW304001, AI828325, AW272720, AA533047, AA315049, AI559391, AW073291, AI801054, AA776960, AI025266, AA582851, AI800431, AI378681, AI800451, AA838499, AW370283, AA315629, AI720013, AI805627, AA884931, AA307513, AA316874, AI378390, AW027843, AA314372, AA565996, AA437001, AI801784, AI040152, AI249798, AA552670, AA970336, AA316967, AA316233, AA314146, AI275085, AA315724, AI476691, AA307795, AI925030, AW364247, AI537173, AA838482, AI242802, AI277266, AA622524, AI473626, AI291994, AW002338, AI610106, AI184843, AA442829, AI469656, AA426228,</p>

2109	HETHC61	901421	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1363 of SEQ ID NO:2109, b is an integer of 15 to 1377, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2109, and where b is greater than or equal to a + 14.</p>	<p>AI146786, AA315166, AI582452, AI916480, AA593818, AA313235, AA421562, AI285429, AI924498, AA583091, AI358508, AA425142, AI445130, AI888732, AA315613, AA244356, AA632103, AW190915, AA581848, AW152169, AW191880, AI678427, AA565444, AW192785, AI891014, AW370274, AA314206, AA476675, AI473553, AA625485, AA687567, AI675714, AA316508, AI685830, AA314052, AI434099, AA298537, AI469613, AI972701, AI972499, AA526975, AI933636, T86663, AI623264, AA513297, AI581525, AW080588, AA501945, AI400863, AA315408, AA298527, AA639696, AA421527, AA558986, AA570785, AW303846, AI537212, AI926128, AI695291, AI986354, AA055880, AI445127, AW196067, AI580982, AI932444, AI919084, T24475, AI471336, AI783818, AI924494, AA306967, AI867585, T24892, AA506763, AA307841, AF088867, AF038451, AF007791, AF044262, AB016592</p>
2110	HTXLJ25	901472	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1363 of SEQ ID NO:2109, b is an integer of 15 to 1377, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2109, and where b is greater than or equal to a + 14.</p>	<p>AI829099, N25625, AI126506, AI200037, AI128843, N34223, AA743134, AW024969, N36303, AI217597, AA605122, AA729493, AI160533, AW450603, AA568193, AA568681, AW020616, AI695490, N26904, N24885, W52651, AA648514, AA806507, N35103,</p>

2111	HCNAI22	901473	<p>is any integer between 1 to 774 of SEQ ID NO:2110, b is an integer of 15 to 788, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2110, and where b is greater than or equal to a + 14.</p>	<p>N72137, AI802647, AI312534, AA729125, N34254, AI219599, H86994, H86995, N39790, R73200, N25653, AI032141, W00385, AW298649, AA296449, N28403, R73137, N26781, R26304, AW452862, AW453038, AI299683, AA988539, W52017, AI039557, AI141901, AA768761, AW236299, AI361669, AI674252, T25829, AI452444, N20053, AW074182, AI984739, AI805445, AA543074, T25828, AA358828, AA653691, AI362330, AI906328, AL110196, AL050024, E03671</p>
			<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1005 of SEQ ID NO:2111, b is an integer of 15 to 1019, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2111, and where b is greater than or equal to a + 14.</p>	<p>AW001287, AW300770, AI691072, AI936111, AA622758, AI245950, AA563933, AA622120, AI801582, AI348065, AA552519, AW001308, AA847242, AA622570, AA552362, AI660557, AW050790, AA582787, AW000826, AA643708, AA298484, AI732367, AA643616, AA514424, AI673534, AA857546, AA025434, AA543029, AI821215, AA470683, AI732198, AA297147, AI582013, AA297176, AA025433, AI749731, AA594300, I95745</p>
2112	HSIAL77	901494	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 961 of SEQ ID NO:2112, b is an integer of 15 to 975, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2112, and where b is greater than or equal to a + 14.</p>	<p>AI685117, AA583424, AA554005, AI718759, AI721245, AI732444, AI832388, AI732445, AI720621, AI720903, AI130541, AI460276, AI990978, AI990957, AA574028, AI879881, AI733759, AI115664, AI832502, AI983398, AI733760, AA580320, AI130579, AA134398, AA126912, AA132736, AI748949, AA308497, AA134332, AA055636, AA133748, AA134372, AA436898, AI708072, AA130459, AA603658, AA134397, AW204007, AA297640, AA102277, AI302569, AA316534, AA130403, AI983618, AA296956, AI380363, AA506416, AI445264, AI688106, AA569104, AA100297, AI963380, AI925567, AW362172, AI672950, AW362167,</p>

	AA298528, AA100290, AA633163, AI832499, AA297149, AA134333, AI707468, AI380043, AA297152, AA574073, AA130530, AA099805, AA297184, AI720152, AI962005, AI832629, AW365047, AA132779, AW029266, AW058268, AI581967, AI582108, AA132843, AW130348, AA298926, AA134251, AA132714, AW376682, AW028870, AI469819, AI880716, AA132909, AA132846, AA134371, AA296954, AA127117, AA297182, AW376616, AA298241, AW268068, AI880399, AA298344, AA297180, AW362573, AA054072, AA877810, AI749293, AA877743, AI459944, AW374543, AA298415, D25577, C21047, AW189415, AW196745, AI648502, AI636811, AI680162, AI590624, AI866770, AI431909, AW082594, AI470293, AI679620, AI627880, AI824576, AI826225, AI963216, AA225339, AI269696, AI683707, AI758437, AI569309, AI811785, AI358213, AI890907, AW105620, AI345253, AI345677, AI573026, AW196097, AW168373, AW302973, AI308035, AW268060, AI348854, AI866111, AW409931, AI345608, AI680498, AI284131, AI345471, AI251221, AW022682, AI699011, AI659795, AI564765, AI478123, AW169462, AI440239, AI624548, N80094, AI800138, AL041772, AI917252, AI570169, AI818578, AI802833, AW074869, AW079572, AI613471, AL047763, AI620284, AI349937, AW151785, AI625316, AW081255, AI888944, AI400725, AI886753, AI471227, AW302988, AI872423, AL042440, AL036214, AI280670, AI493576, AI283143, AI452993, AI567238, AI814087, AI611348, AI687065, AI698391, AI345735, AI590686, AI345416, AI445165, AI345612, AI919107, AI609556, AI590423, AW087938, AA493923, AW078945, AI445368,

	AW026610, AI500077, AI345415, AI812015, AI284484, AI334884, AI932794, AI591407, AI744256, AI870192, AI446373, AW302073, AL037030, AI349967, AI539847, AW080279, AI306705, AI366985, AI345787, AW105455, AI801523, AI783504, AI610799, AW302992, AI520809, AI348897, AI352497, AI922901, AI569583, AL036631, AW198075, AW088134, AW263453, AI587606, AI783861, AI468872, AI636619, AW104196, AI611810, AI590120, AI621179, AI589947, AI349957, AW149227, AW103200, AA848053, AI924686, AF014838, I95750, AB006781, U82953, X79303, AF091738, U67958, AF038562, AF036941, AL080127, AF061943, AF162270, X93495, AL122123, AL133016, I48978, U96683, AF158248, AF113694, AR000496, U39656, L30117, AL117440, AL137527, AF017437, I89947, A08916, AF146568, A08913, AF113689, AF118070, AL049314, AJ238278, X84990, AL117585, AL117457, AL096744, AL117435, A08910, I89931, A08909, M30514, I49625, AF003737, AF113019, AL137533, AF026124, E03348, Y11587, AR059958, I03321, AL133093, A77033, A77035, X82434, AB007812, AR038969, AR038854, L19437, AF090943, I48979, AF090934, AF067728, AF090903, AL050277, AL050138, AL050393, A08912, AF081197, AJ012755, AF090900, AF113690, AF113677, AF113691, AL080124, AL137550, AF111851, AF153205, S78214, A45787, A03736, U72620, AL080060, A65341, AL080159, AL133640, E02349, Z82022, AF183393, AL137538, AL122098, AF061795, Y14314, AF151685, AL080137, AL133565, AL137476, AC002467, AL110221, AR011880, AL122110, AF026816, X63574, AL122121, AF113699, AL080074, AL137292, AF091084, AL117432, AL133645, AL133560, AF061573, S61953, AL133067, AL137478, AL049382,

			<p>AL117583, E15569, AF113013, AL050116, AL023657, U49908, AL080086, AF078844, I26207, AF119337, AL137556, Y16645, AL110196, AL137271, Z72491, I42402, Z37987, AF090901, X65873, AF079765, AL137463, AF104032, AF111112, AF081195, U00763, AL122049, AL137526, AF118064, I09360, X87582, E05822, AL122050, AL133098, AL133557, AF017152, AL133075, AF113676, AL133077, S68736, AL133568, AL133014, U80742, U78525, AL133113, E02221, AF106862, X96540, A93016, AL049452, AL137560, AL122118, X53587, AL049300, E04233, AF087943, AL050149, AF125948, AF185576, U35846, AJ006417, AF057300, AF057299, AL110280, X72889, A58524, A58523, AL049466, AL133080, I33392, AL117460, AL049464, AF008439, AF118094, AF097996, A90832, AL050024, Y11254, AJ000937, AL049430, U58996, AL137459, AF111849, A93350, Y09972, AL050108, AF177401, I00734, AF090896, AL137273, AL122093, Y07905, AL133072, U42766, AL137521, AB019565, AF067790, AL133104, AL137557, AL049283, X70685, AL137648, AF079763, AJ242859, E07108, A07647, E08631, AF125949, L31396, E00617, E00717, E00778, U68387, AL050146, AL110225, AL117394, A12297, AL133606, L31397</p>
2113	HRACJ32	901515	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1159 of SEQ ID NO:2113, b is an integer of 15 to 1173, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2113, and where b is greater than or equal to a + 14.</p>

	R36271, AW162194, AW167918, AI559752, AL036638, AL079963, AI866232, AI288285, AI610362, AI613038, AW163823, AI537677, AI540458, AW161156, AW163554, AI537187, AW020397, AI564290, AI282930, AI697324, AI524654, AI554821, AW161579, AI687295, AL079960, AI961589, AA641818, AI572396, AI382670, AW079572, AI114703, AI699143, AA420722, AI890223, AL043345, AI570966, AI469505, AI242248, AI802542, AL036901, AL037454, AI468872, AI277008, AL119836, AI919593, AI340603, AI590043, AI909697, AW021717, AI539800, AW022682, AI538850, AI568138, AI884318, AI345416, AI802240, AI345612, AL120700, AI698391, AL042191, AI345415, AI491710, AI588892, AI690748, Z99428, AI683395, AA640779, AI097643, AW198112, AW020561, AA572872, AI868740, AI798456, AI564259, AI690411, AI686576, N29277, AI538764, AI345735, AI862135, AI932638, AI499285, AW090498, AL119863, AI270295, AW303089, AI923989, AA580663, AW169604, AI862144, AW051088, AW083750, AI538885, AL134259, AI633196, AI866465, AL039086, AI623682, AW023338, AL043355, AW103628, AW162071, AI580436, AI624963, AI934011, AL119748, AW088899, AW151136, AL119399, AI434242, AI251221, AI363957, AI916419, AA833760, AW020693, AI811912, AI281653, AI281867, AI440263, AI473536, AA464646, AI475371, AI624943, AI699011, AI800464, AI270055, AL036274, AI954080, AA572758, AI824746, AI241923, AL036802, AL046618, AI312428, AL121328, AW403717, AI349645, AW074869, AI280561, AI566670, AA916133, AI890907, AI917963, AL036631, AW059713, AW150308, AI570807,

	AI567582, AI863382, AI636588, AI648458, AI431962, AI612913, AI307285, AI494201, AI249877, AI950892, AI620517, AW105431, AL048871, AI633477, AW265004, AI597805, AI247293, AI567866, AI827440, AW089572, AI559599, AI699865, AW024564, F27788, AI310155, AL036361, AW028840, AA693347, AL036396, AI969655, AI950664, AI340519, AA908294, AI677797, AI624293, AW238730, AA975952, AI634736, AI638798, AW051059, AI690813, AI349957, AI812015, AI637748, Z11887, X07819, I91443, AB031324, AB031323, L24374, L22524, L22520, X63162, L22523, L22521, L22522, L22519, X07821, X80340, AF039138, AF039137, AL050116, AL122098, AL133081, I89947, I48978, AF057300, AF057299, AL137271, AL110222, AL122050, AL137656, AL133067, AL049283, AL133014, Y11254, AL137459, AB007812, I03321, AL049382, AB016226, A08916, Y16645, X62580, AF113699, AL137533, AF106657, AL137527, AL122123, AL080234, A08913, AF067790, AF100931, AR038969, A77033, A77035, AF153205, S78214, AL133113, AL137557, I33392, I66342, AF061573, AL110196, AL133640, I48979, AL137558, AL137488, E02221, S76508, I89931, I09499, A08912, AL133606, M86826, AR029490, AF139986, U42766, AL137283, AL049300, AL117457, AL080148, AL110221, L04504, AF061943, X53587, AR011880, AL122110, S75997, AJ238278, AL117460, X57961, I68732, S61953, A65341, AL133080, Z82022, AL110197, X84990, Y09972, AL133665, AL117435, I00734, A08910, U49908, AF090934, A08909, E05822, AL137550, AF090886, AF090903, AL133093, E00617, E00717, E00778, AF113013, AL137521, E12747, D83032, AL133560, AR038854, AB019565, AR013797, A08907, A08908, E02349, AF111851, AL133075, AL122093, Y07905, AL133565,

2114	HMGBI25	901567	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1694 of SEQ ID NO:2114, b is an integer of 15 to 1708, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2114, and where b is greater than or equal to a + 14.</p>	<p>AF008439, A21103, AF078844, AF113677, AF118094, AF159615, Z37987, AL050149, AL133016, AL096744, AF158248, S68736, A15345, AF113019, X82434, AL049430, AF125949, AF177401, AL117432, AF113691, AL137480, AL080163, AF032666, AL137479, AF126247, X79812, AF118070, AL137640, AJ242859, AL122100, AF061795, AF151685, AF106862, I49625, AF017437, AL049452, AF176651, AF090900, X98834, I89934, AL080086, AJ000937, AF113690, A18777, AF097996, AL049466</p> <p>AA195220, AW340394, AW245451, AW249311, AW247523, AA411315, AW245809, AA843490, AI744583, AI832220, AI376745, AW166921, AI671163, AI917768, AI536948, AA195229, AI751173, AW118765, AI751172, AI270398, AI934874, AI635792, AI480259, AA677092, AI689138, AI992041, AI217673, AA470811, AI873294, AW002588, AI360270, AW087675, AA904529, R56232, AI631567, AW014308, AI341110, N72697, AA884481, AA354601, AA307392, AW248893, R56314, AW276496, C00611, R96718, AW088921, AI934027, W02478, AA969594, AA766929, AW245106, AA626280, AA642780, AA249655, AA677111, AI174453, AA416840, R96719, AI472448, AA813404, AA416839</p>
2115	HDTEO10	901578	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1863 of SEQ ID NO:2115, b is an integer of 15 to 1877, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2115, and where b is greater</p>	<p>AI587350, X95876, Z79783, U32674</p>

2116	HSSGC06	901621	<p>than or equal to $a + 14$.</p> <p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 814 of SEQ ID NO:2116, b is an integer of 15 to 828, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2116, and where b is greater than or equal to $a + 14$.</p>	AA612669, AW026486, AA612668, AI458253, AA311709, AI859961, AA005340, AA005433, AA397884, AI751088, AA005434, AA932249, AW273329, AA287706, AI016843, N66090, AI205137, AA488248, W90552, AA699684, AI694508, W90553, AA130969, AA609505, AA399646, AI693778, AA099841, AI201786, AI452981, AA644003, AI085190, AI808813, AI202524, N98636, T60671, AW407236, R09367, AA191378, AA827388, AI276380, AA488193, H23331, AA160239, AA309096, F12355, AI142701, T57771, AA085583, T64868, AA310662, AA357288, D58848, AA055733, R09250, AI183865, AA356179, M78761, AA045074, AA461214, AA190768, T80323, AW363425, AI677821, R17951, AL031685, AF131742, AA827467
2117	HSICN14	901875	<p>Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of $a-b$, where a is any integer between 1 to 2506 of SEQ ID NO:2117, b is an integer of 15 to 2520, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:2117, and where b is greater than or equal to $a + 14$.</p>	AL120519, AL120518, AW167654, AI860695, AW340140, AA878120, AA824284, AI829215, AI858970, AI983809, AA723802, AA233673, AI910795, AA527075, AI687053, AI289782, AW195947, AA494414, AI680070, AW132045, AI368513, AI688692, AW439152, AI688681, C00730, AI697102, AW293340, AA524205, AA514491, AI337294, AI858216, AI857575, AC005837, Y11274

Polynucleotide and Polypeptide Variants

The present invention is directed to variants of the polynucleotide sequence disclosed in SEQ ID NO:X, the complementary strand thereto, and/or the cDNA sequence contained in a deposited clone.

5 The present invention also encompasses variants of the polypeptide sequence disclosed in SEQ ID NO:Y and/or encoded by a deposited clone.

"Variant" refers to a polynucleotide or polypeptide differing from the polynucleotide or polypeptide of the present invention, but retaining essential properties thereof. Generally, variants are overall closely similar, and, in many regions, identical to the polynucleotide or
10 polypeptide of the present invention.

The present invention is also directed to nucleic acid molecules which comprise, or alternatively consist of, a nucleotide sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to, for example, the nucleotide coding sequence in SEQ ID NO:X or the complementary strand thereto, the nucleotide coding sequence contained in a deposited
15 cDNA clone or the complementary strand thereto, a nucleotide sequence encoding the polypeptide of SEQ ID NO:Y, a nucleotide sequence encoding the polypeptide encoded by the cDNA contained in a deposited clone, and/or polynucleotide fragments of any of these nucleic acid molecules (e.g., those fragments described herein). Polynucleotides which hybridize to these nucleic acid molecules under stringent hybridization conditions or
20 alternatively, under lower stringency conditions are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

The present invention is also directed to polypeptides which comprise, or alternatively consist of, an amino acid sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100% identical to, for example, the polypeptide sequence shown in SEQ ID NO:Y, a
25 polypeptide sequence encoded by SEQ ID NO:X or the complement thereof, the polypeptide sequence encoded by the cDNA contained in a deposited clone, and/or polypeptide fragments of any of these polypeptides (e.g., those fragments described herein).

By a nucleic acid having a nucleotide sequence at least, for example, 95% "identical" to a reference nucleotide sequence of the present invention, it is intended that the nucleotide
30 sequence of the nucleic acid is identical to the reference sequence except that the nucleotide sequence may include up to five point mutations per each 100 nucleotides of the reference nucleotide sequence encoding the polypeptide. In other words, to obtain a nucleic acid

having a nucleotide sequence at least 95% identical to a reference nucleotide sequence, up to 5% of the nucleotides in the reference sequence may be deleted or substituted with another nucleotide, or a number of nucleotides up to 5% of the total nucleotides in the reference sequence may be inserted into the reference sequence. The query sequence may be an entire
5 sequence shown in Table 1, the ORF (open reading frame), or any fragment specified as described herein.

As a practical matter, whether any particular nucleic acid molecule or polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to a nucleotide sequence of the present invention can be determined conventionally using known computer programs.

10 A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci. (1990) 6:237-245). In a sequence alignment the query and subject sequences are both DNA sequences. An RNA sequence can be
15 compared by converting U's to T's. The result of said global sequence alignment is in percent identity. Preferred parameters used in a FASTDB alignment of DNA sequences to calculate percent identity are: Matrix=Unitary, k-tuple=4, Mismatch Penalty=1, Joining Penalty=30, Randomization Group Length=0, Cutoff Score=1, Gap Penalty=5, Gap Size Penalty 0.05, Window Size=500 or the length of the subject nucleotide sequence, whichever
20 is shorter.

If the subject sequence is shorter than the query sequence because of 5' or 3' deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for 5' and 3' truncations of the subject sequence when calculating percent identity. For subject sequences truncated at the 5'
25 or 3' ends, relative to the query sequence, the percent identity is corrected by calculating the number of bases of the query sequence that are 5' and 3' of the subject sequence, which are not matched/aligned, as a percent of the total bases of the query sequence. Whether a nucleotide is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above
30 FASTDB program using the specified parameters, to arrive at a final percent identity score. This corrected score is what is used for the purposes of the present invention. Only bases outside the 5' and 3' bases of the subject sequence, as displayed by the FASTDB alignment,

which are not matched/aligned with the query sequence, are calculated for the purposes of manually adjusting the percent identity score.

For example, a 90 base subject sequence is aligned to a 100 base query sequence to determine percent identity. The deletions occur at the 5' end of the subject sequence and therefore, the FASTDB alignment does not show a matched/alignment of the first 10 bases at 5' end. The 10 unpaired bases represent 10% of the sequence (number of bases at the 5' and 3' ends not matched/total number of bases in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 bases were perfectly matched the final percent identity would be 90%. In another example, a 90 base subject sequence is compared with a 100 base query sequence. This time the deletions are internal deletions so that there are no bases on the 5' or 3' of the subject sequence which are not matched/aligned with the query. In this case the percent identity calculated by FASTDB is not manually corrected. Once again, only bases 5' and 3' of the subject sequence which are not matched/aligned with the query sequence are manually corrected for. No other manual corrections are to made for the purposes of the present invention.

By a polypeptide having an amino acid sequence at least, for example, 95% "identical" to a query amino acid sequence of the present invention, it is intended that the amino acid sequence of the subject polypeptide is identical to the query sequence except that the subject polypeptide sequence may include up to five amino acid alterations per each 100 amino acids of the query amino acid sequence. In other words, to obtain a polypeptide having an amino acid sequence at least 95% identical to a query amino acid sequence, up to 5% of the amino acid residues in the subject sequence may be inserted, deleted, (indels) or substituted with another amino acid. These alterations of the reference sequence may occur at the amino or carboxy terminal positions of the reference amino acid sequence or anywhere between those terminal positions, interspersed either individually among residues in the reference sequence or in one or more contiguous groups within the reference sequence.

As a practical matter, whether any particular polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to, for instance, the amino acid sequences shown in Table 1 or a fragment thereof, or to the amino acid sequence encoded by the cDNA contained in a deposited clone or a fragment thereof, can be determined conventionally using known computer programs. A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to

as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci.6:237- 245(1990)). In a sequence alignment the query and subject sequences are either both nucleotide sequences or both amino acid sequences. The result of said global sequence alignment is in percent identity. Preferred parameters used in a FASTDB amino acid alignment are: Matrix=PAM 0, k-tuple=2, Mismatch Penalty=1, Joining Penalty=20, Randomization Group Length=0, Cutoff Score=1, Window Size=sequence length, Gap Penalty=5, Gap Size Penalty=0.05, Window Size=500 or the length of the subject amino acid sequence, whichever is shorter.

If the subject sequence is shorter than the query sequence due to N- or C-terminal deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for N- and C-terminal truncations of the subject sequence when calculating global percent identity. For subject sequences truncated at the N- and C-termini, relative to the query sequence, the percent identity is corrected by calculating the number of residues of the query sequence that are N- and C-terminal of the subject sequence, which are not matched/aligned with a corresponding subject residue, as a percent of the total bases of the query sequence. Whether a residue is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above FASTDB program using the specified parameters, to arrive at a final percent identity score. This final percent identity score is what is used for the purposes of the present invention. Only residues to the N- and C-termini of the subject sequence, which are not matched/aligned with the query sequence, are considered for the purposes of manually adjusting the percent identity score. That is, only query residue positions outside the farthest N- and C- terminal residues of the subject sequence.

For example, a 90 amino acid residue subject sequence is aligned with a 100 residue query sequence to determine percent identity. The deletion occurs at the N-terminus of the subject sequence and therefore, the FASTDB alignment does not show a matching/alignment of the first 10 residues at the N-terminus. The 10 unpaired residues represent 10% of the sequence (number of residues at the N- and C- termini not matched/total number of residues in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 residues were perfectly matched the final percent identity would be 90%. In another example, a 90 residue subject sequence is compared with

a 100 residue query sequence. This time the deletions are internal deletions so there are no residues at the N- or C-termini of the subject sequence which are not matched/aligned with the query. In this case the percent identity calculated by FASTDB is not manually corrected. Once again, only residue positions outside the N- and C-terminal ends of the subject sequence, as displayed in the FASTDB alignment, which are not matched/aligned with the query sequence are manually corrected for. No other manual corrections are to be made for the purposes of the present invention.

The variants may contain alterations in the coding regions, non-coding regions, or both. Especially preferred are polynucleotide variants containing alterations which produce silent substitutions, additions, or deletions, but do not alter the properties or activities of the encoded polypeptide. Nucleotide variants produced by silent substitutions due to the degeneracy of the genetic code are preferred. Moreover, variants in which less than 50, less than 40, less than 30, less than 20, less than 10, or 5-50, 5-25, 5-10, 1-5, or 1-2 amino acids are substituted, deleted, or added in any combination are also preferred. Polynucleotide variants can be produced for a variety of reasons, e.g., to optimize codon expression for a particular host (change codons in the human mRNA to those preferred by a bacterial host such as *E. coli*).

Naturally occurring variants are called "allelic variants," and refer to one of several alternate forms of a gene occupying a given locus on a chromosome of an organism. (Genes II, Lewin, B., ed., John Wiley & Sons, New York (1985).) These allelic variants can vary at either the polynucleotide and/or polypeptide level and are included in the present invention. Alternatively, non-naturally occurring variants may be produced by mutagenesis techniques or by direct synthesis.

Using known methods of protein engineering and recombinant DNA technology, variants may be generated to improve or alter the characteristics of the polypeptides of the present invention. For instance, one or more amino acids can be deleted from the N-terminus or C-terminus of the colon cancer related polypeptides without substantial loss of biological function. The authors of Ron et al., *J. Biol. Chem.* 268: 2984-2988 (1993), reported variant KGF proteins having heparin binding activity even after deleting 3, 8, or 27 amino-terminal amino acid residues. Similarly, Interferon gamma exhibited up to ten times higher activity after deleting 8-10 amino acid residues from the carboxy terminus of this protein. (Dobeli et al., *J. Biotechnology* 7:199-216 (1988).)

Moreover, ample evidence demonstrates that variants often retain a biological activity similar to that of the naturally occurring protein. For example, Gayle and coworkers (J. Biol. Chem 268:22105-22111 (1993)) conducted extensive mutational analysis of human cytokine IL-1a. They used random mutagenesis to generate over 3,500 individual IL-1a mutants that averaged 2.5 amino acid changes per variant over the entire length of the molecule. Multiple mutations were examined at every possible amino acid position. The investigators found that "[m]ost of the molecule could be altered with little effect on either [binding or biological activity]." (See, Abstract.) In fact, only 23 unique amino acid sequences, out of more than 3,500 nucleotide sequences examined, produced a protein that significantly differed in activity from wild-type.

Furthermore, even if deleting one or more amino acids from the N-terminus or C-terminus of a polypeptide results in modification or loss of one or more biological functions, other biological activities may still be retained. For example, the ability of a deletion variant to induce and/or to bind antibodies which recognize the secreted form will likely be retained when less than the majority of the residues of the secreted form are removed from the N-terminus or C-terminus. Whether a particular polypeptide lacking N- or C-terminal residues of a protein retains such immunogenic activities can readily be determined by routine methods described herein and otherwise known in the art.

Thus, the invention further includes polypeptide variants which show substantial biological activity. Such variants include deletions, insertions, inversions, repeats, and substitutions selected according to general rules known in the art so as to have little effect on activity. The present application is directed to nucleic acid molecules at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% or 100% identical to the nucleic acid sequences disclosed herein, (e.g., encoding a polypeptide having the amino acid sequence of an N and/or C terminal deletion), irrespective of whether they encode a polypeptide having functional activity. This is because even where a particular nucleic acid molecule does not encode a polypeptide having functional activity, one of skill in the art would still know how to use the nucleic acid molecule, for instance, as a hybridization probe or a polymerase chain reaction (PCR) primer. Uses of the nucleic acid molecules of the present invention that do not encode a polypeptide having functional activity include, inter alia, (1) isolating a gene or allelic or splice variants thereof in a cDNA library; (2) in situ hybridization (e.g., "FISH") to metaphase chromosomal spreads to provide precise chromosomal location of the gene, as

described in Verma et al., Human Chromosomes: A Manual of Basic Techniques, Pergamon Press, New York (1988); and (3) Northern Blot analysis for detecting mRNA expression in specific tissues.

Preferred, however, are nucleic acid molecules having sequences at least 80%, 85%,
5 90%, 95%, 96%, 97%, 98% or 99% or 100% identical to the nucleic acid sequences disclosed herein, which do, in fact, encode a polypeptide having functional activity. By "a polypeptide having functional activity" is intended polypeptides exhibiting activity similar, but not necessarily identical, to a functional activity of the polypeptides of the present invention (e.g., complete (full-length), mature and soluble (e.g., having sequences contained in the
10 extracellular domain) as measured, for example, in a particular immunoassay or biological assay. For example, a functional activity can routinely be measured by determining the ability of a polypeptide of the present invention to bind a ligand. Functional activity may also be measured by determining the ability of a polypeptide, such as cognate ligand which is free or expressed on a cell surface, to induce cells expressing the polypeptide.

15 Of course, due to the degeneracy of the genetic code, one of ordinary skill in the art will immediately recognize that a large number of the nucleic acid molecules having a sequence at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, or 99%, or 100% identical to, for example, the nucleic acid sequence of the deposited cDNA, the nucleic acid sequence shown in Table 1 (SEQ ID NO:X), or fragments thereof, will encode polypeptides "having
20 functional activity." In fact, since degenerate variants of any of these nucleotide sequences all encode the same polypeptide, in many instances, this will be clear to the skilled artisan even without performing the above described comparison assay. It will be further recognized in the art that, for such nucleic acid molecules that are not degenerate variants, a reasonable number will also encode a polypeptide having functional activity. This is because the skilled
25 artisan is fully aware of amino acid substitutions that are either less likely or not likely to significantly effect protein function (e.g., replacing one aliphatic amino acid with a second aliphatic amino acid), as further described below.

For example, guidance concerning how to make phenotypically silent amino acid substitutions is provided in Bowie et al., "Deciphering the Message in Protein Sequences:
30 Tolerance to Amino Acid Substitutions," Science 247:1306-1310 (1990), wherein the authors indicate that there are two main strategies for studying the tolerance of an amino acid sequence to change.

The first strategy exploits the tolerance of amino acid substitutions by natural selection during the process of evolution. By comparing amino acid sequences in different species, conserved amino acids can be identified. These conserved amino acids are likely important for protein function. In contrast, the amino acid positions where substitutions have
5 been tolerated by natural selection indicates that these positions are not critical for protein function. Thus, positions tolerating amino acid substitution could be modified while still maintaining biological activity of the protein.

The second strategy uses genetic engineering to introduce amino acid changes at specific positions of a cloned gene to identify regions critical for protein function. For
10 example, site directed mutagenesis or alanine-scanning mutagenesis (introduction of single alanine mutations at every residue in the molecule) can be used. (Cunningham and Wells, Science 244:1081-1085 (1989).) The resulting mutant molecules can then be tested for biological activity.

As the authors state, these two strategies have revealed that proteins are surprisingly
15 tolerant of amino acid substitutions. The authors further indicate which amino acid changes are likely to be permissive at certain amino acid positions in the protein. For example, most buried (within the tertiary structure of the protein) amino acid residues require nonpolar side chains, whereas few features of surface side chains are generally conserved. Moreover, tolerated conservative amino acid substitutions involve replacement of the aliphatic or
20 hydrophobic amino acids Ala, Val, Leu and Ile; replacement of the hydroxyl residues Ser and Thr; replacement of the acidic residues Asp and Glu; replacement of the amide residues Asn and Gln, replacement of the basic residues Lys, Arg, and His; replacement of the aromatic residues Phe, Tyr, and Trp, and replacement of the small-sized amino acids Ala, Ser, Thr, Met, and Gly. Besides conservative amino acid substitution, variants of the present invention
25 include (i) substitutions with one or more of the non-conserved amino acid residues, where the substituted amino acid residues may or may not be one encoded by the genetic code, or (ii) substitution with one or more of amino acid residues having a substituent group, or (iii) fusion of the mature polypeptide with another compound, such as a compound to increase the stability and/or solubility of the polypeptide (for example, polyethylene glycol), or (iv) fusion
30 of the polypeptide with additional amino acids, such as, for example, an IgG Fc fusion region peptide, or leader or secretory sequence, or a sequence facilitating purification. Such variant

polypeptides are deemed to be within the scope of those skilled in the art from the teachings herein.

For example, polypeptide variants containing amino acid substitutions of charged amino acids with other charged or neutral amino acids may produce proteins with improved characteristics, such as less aggregation. Aggregation of pharmaceutical formulations both reduces activity and increases clearance due to the aggregate's immunogenic activity. (Pinckard et al., Clin. Exp. Immunol. 2:331-340 (1967); Robbins et al., Diabetes 36: 838-845 (1987); Cleland et al., Crit. Rev. Therapeutic Drug Carrier Systems 10:307-377 (1993).)

A further embodiment of the invention relates to a polypeptide which comprises the amino acid sequence of a polypeptide having an amino acid sequence which contains at least one amino acid substitution, but not more than 50 amino acid substitutions, even more preferably, not more than 40 amino acid substitutions, still more preferably, not more than 30 amino acid substitutions, and still even more preferably, not more than 20 amino acid substitutions. Of course, in order of ever-increasing preference, it is highly preferable for a polypeptide to have an amino acid sequence which comprises the amino acid sequence of a polypeptide of SEQ ID NO:Y, in order of ever-increasing preference, which contains at least one, but not more than 10, 9, 8, 7, 6, 5, 4, 3, 2 or 1 amino acid substitutions. In specific embodiments, the number of additions, substitutions, and/or deletions in the amino acid sequence of SEQ ID NO:Y or fragments thereof (e.g., the mature form and/or other fragments described herein), and/or the amino acid sequence encoded by the deposited clone or fragments thereof, is 1-5, 5-10, 5-25, 5-50, 10-50 or 50-150, conservative amino acid substitutions are preferable.

Polynucleotide and Polypeptide Fragments

The present invention is also directed to polynucleotide fragments of the polynucleotides of the invention. In the present invention, a "polynucleotide fragment" refers to a short polynucleotide having a nucleic acid sequence which: is a portion of the cDNA contained in a deposited cDNA clone; or is a portion of a polynucleotide sequence encoding the polypeptide encoded by the cDNA contained in a deposited cDNA clone; or is a portion of the polynucleotide sequence in SEQ ID NO:X or the complementary strand thereto; or is a polynucleotide sequence encoding a portion of the polypeptide of SEQ ID NO:Y; or is a polynucleotide sequence encoding a portion of a polypeptide encoded by SEQ ID NO:X or

the complementary strand thereto. The nucleotide fragments of the invention are preferably at least about 15 nt, and more preferably at least about 20 nt, still more preferably at least about 30 nt, and even more preferably, at least about 40nt, at least about 50 nt, at least about 75 nt, or at least about 150 nt in length. A fragment "at least 20 nt in length," for example, is intended to include 20 or more contiguous bases from the cDNA sequence contained in a deposited clone or the nucleotide sequence shown in SEQ ID NO:X or the complementary strand thereto. In this context "about" includes the particularly recited value, a value larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. These nucleotide fragments have uses that include, but are not limited to, as diagnostic probes and primers as discussed herein. Of course, larger fragments (e.g., at least 50, 150, 200, 250, 500, 600, 1000 or 2000 nucleotides in length) are also encompassed by the invention.

Moreover, representative examples of polynucleotide fragments of the invention, include, for example, fragments comprising, or alternatively consisting of, a sequence from about nucleotide number 1-50, 51-100, 101-150, 151-200, 201-250, 251-300, 301-350, 351-400, 401-450, 451-500, 501-550, 551-600, 651-700, 701-750, 751-800, 800-850, 851-900, 901-950, 951-1000, 1001-1050, 1051-1100, 1101-1150, 1151-1200, 1201-1250, 1251-1300, 1301-1350, 1351-1400, 1401-1450, 1451-1500, 1501-1550, 1551-1600, 1601-1650, 1651-1700, 1701-1750, 1751-1800, 1801-1850, 1851-1900, 1901-1950, 1951-2000, 2001-2050, 2051-2100, 2101-2150, 2151-2200, 2201-2250, 2251-2300, 2301-2350, 2351-2400, 2401-2450, 2451-2500, 2501-2550, 2551-2600, 2651-2700, 2701-2750, 2751-2800, 2800-2850, 2851-2900, 2901-2950, 2951-3000, 3001-3050, 3051-3100 and 3101 to the end of SEQ ID NO:X, or the complementary strand thereto, or the cDNA contained in the deposited clone. In this context "about" includes the particularly recited ranges, and ranges larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. Preferably, these fragments encode a polypeptide which has biological activity. More preferably, these polynucleotides can be used as probes or primers as discussed herein. Polynucleotides which hybridize to these nucleic acid molecules under stringent hybridization conditions or lower stringency conditions are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

Moreover, representative examples of polynucleotide fragments of the invention, include, for example, fragments comprising, or alternatively consisting of, a sequence from about nucleotide number 1-50, 51-100, 101-150, 151-200, 201-250, 251-300, 301-350, 351-

400, 401-450, 451-500, 501-550, 551-600, 651-700, 701-750, 751-800, 800-850, 851-900, 901-950, 951-1000, 1001-1050, 1051-1100, 1101-1150, 1151-1200, 1201-1250, 1251-1300, 1301-1350, 1351-1400, 1401-1450, 1451-1500, 1501-1550, 1551-1600, 1601-1650, 1651-1700, 1701-1750, 1751-1800, 1801-1850, 1851-1900, 1901-1950, 1951-2000, 2001-2050, 2051-2100, 2101-2150, 2151-2200, 2201-2250, 2251-2300, 2301-2350, 2351-2400, 2401-2450, 2451-2500, 2501-2550, 2551-2600, 2601-2650, 2651-2700, 2701-2750, 2751-2800, 2801-2850, 2851-2900, 2901-2950, 2951-3000, 3001-3050, 3051-3100 and 3101 to the end of the cDNA nucleotide sequence contained in the deposited cDNA clone, or the complementary strand thereto. In this context "about" includes the particularly recited range, or a range larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. Preferably, these fragments encode a polypeptide which has a functional activity (e.g., biological activity) of the polypeptide encoded by the cDNA nucleotide sequence contained in the deposited cDNA clone. More preferably, these fragments can be used as probes or primers as discussed herein. Polynucleotides which hybridize to one or more of these fragments under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides or fragments.

In the present invention, a "polypeptide fragment" refers to an amino acid sequence which is a portion of that contained in SEQ ID NO:Y, encoded by SEQ ID NO:X or the complement thereof and/or encoded by the cDNA contained in the deposited clone. Protein (polypeptide) fragments may be "free-standing," or comprised within a larger polypeptide of which the fragment forms a part or region, most preferably as a single continuous region. Representative examples of polypeptide fragments of the invention, include, for example, fragments comprising, or alternatively consisting of, from about amino acid number 1-20, 21-40, 41-60, 61-80, 81-100, 102-120, 121-140, 141-160, 161-180, 181-200, 201-220, 221-240, 241-260, 261-280, 281-300, 301-320, 321-340, 341-360, 361-380, 381-400, 401-420, 421-440, 441-460, 461-480, 481-500, 501-520, 521-540, 541-560, 561-580, 581-600, 601-620, 621-640, 641-660, 661-680, 681-700, 701-720, 721-740, 741-760, 761-780, 781-800, 801-820, 821-840, 841-860 and 861 to the end of SEQ ID NO:Y. Moreover, polypeptide fragments can be about 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 100, 110, 120, 130, 140, or 150 amino acids in length. In this context "about" includes the particularly recited ranges or values, and ranges or values larger or smaller by several (5, 4, 3,

2, or 1) amino acids, at either extreme or at both extremes. Polynucleotides encoding these polypeptides are also encompassed by the invention.

Even if deletion of one or more amino acids from the N-terminus of a protein results in modification or loss of one or more biological functions of the protein, other functional activities (e.g., biological activities, ability to multimerize, ability to bind a ligand) may still be retained. For example, the ability of shortened muteins to induce and/or bind to antibodies which recognize the complete or mature forms of the polypeptides generally will be retained when less than the majority of the residues of the complete or mature polypeptide are removed from the N-terminus. Whether a particular polypeptide lacking N-terminal residues of a complete polypeptide retains such immunologic activities can readily be determined by routine methods described herein and otherwise known in the art. It is not unlikely that a mutein with a large number of deleted N-terminal amino acid residues may retain some biological or immunogenic activities. In fact, peptides composed of as few as six amino acid residues may often evoke an immune response.

Accordingly, polypeptide fragments include the secreted protein as well as the mature form. Further preferred polypeptide fragments include the secreted protein or the mature form having a continuous series of deleted residues from the amino or the carboxy terminus, or both. For example, any number of amino acids, ranging from 1-60, can be deleted from the amino terminus of either the secreted polypeptide or the mature form. Similarly, any number of amino acids, ranging from 1-30, can be deleted from the carboxy terminus of the secreted protein or mature form. Furthermore, any combination of the above amino and carboxy terminus deletions are preferred. Similarly, polynucleotides encoding these polypeptide fragments are also preferred.

The present invention further provides polypeptides having one or more residues deleted from the amino terminus of the amino acid sequence of a polypeptide disclosed herein (e.g., a polypeptide of SEQ ID NO:Y, and/or a polypeptide encoded by the cDNA contained in a deposited clone). In particular, N-terminal deletions may be described by the general formula m-q, where q is a whole integer representing the total number of amino acid residues in a polypeptide of the invention (e.g., the polypeptide disclosed in SEQ ID NO:Y), and m is defined as any integer ranging from 2 to q-6. Polynucleotides encoding these polypeptides are also encompassed by the invention.

Also as mentioned above, even if deletion of one or more amino acids from the C-terminus of a protein results in modification or loss of one or more biological functions of the protein, other functional activities (e.g., biological activities, ability to multimerize, ability to bind a ligand) may still be retained. For example the ability of the shortened mutein to induce and/or bind to antibodies which recognize the complete or mature forms of the polypeptide generally will be retained when less than the majority of the residues of the complete or mature polypeptide are removed from the C-terminus. Whether a particular polypeptide lacking C-terminal residues of a complete polypeptide retains such immunologic activities can readily be determined by routine methods described herein and otherwise known in the art. It is not unlikely that a mutein with a large number of deleted C-terminal amino acid residues may retain some biological or immunogenic activities. In fact, peptides composed of as few as six amino acid residues may often evoke an immune response.

Accordingly, the present invention further provides polypeptides having one or more residues from the carboxy terminus of the amino acid sequence of a polypeptide disclosed herein (e.g., a polypeptide of SEQ ID NO:Y, a polypeptide encoded by the polynucleotide sequence contained in SEQ ID NO:X, and/or a polypeptide encoded by the cDNA contained in deposited cDNA clone referenced in Table 1). In particular, C-terminal deletions may be described by the general formula 1-n, where n is any whole integer ranging from 6 to q-1, and where n corresponds to the position of an amino acid residue in a polypeptide of the invention. Polynucleotides encoding these polypeptides are also encompassed by the invention.

In addition, any of the above described N- or C-terminal deletions can be combined to produce a N- and C-terminal deleted polypeptide. The invention also provides polypeptides having one or more amino acids deleted from both the amino and the carboxyl termini, which may be described generally as having residues m-n of a polypeptide encoded by SEQ ID NO:X (e.g., including, but not limited to the preferred polypeptide disclosed as SEQ ID NO:Y), or the cDNA contained in a deposited clone, and/or the complement thereof, where n and m are integers as described above. Polynucleotides encoding these polypeptides are also encompassed by the invention.

Any polypeptide sequence contained in the polypeptide of SEQ ID NO:Y, encoded by the polynucleotide sequences set forth as SEQ ID NO:X or the complement thereof, or encoded by the cDNA in the related cDNA clone contained in the deposit may be analyzed to

determine certain preferred regions of the polypeptide. For example, the amino acid sequence of a polypeptide encoded by a polynucleotide sequence of SEQ ID NO:X or the complement thereof, or the cDNA in a deposited cDNA clone may be analyzed using the default parameters of the DNASTAR computer algorithm (DNASTAR, Inc., 1228 S. Park St., Madison, WI 53715 USA; <http://www.dnastar.com/>).

Polypeptide regions that may be routinely obtained using the DNASTAR computer algorithm include, but are not limited to, Garnier-Robson alpha-regions, beta-regions, turn-regions, and coil-regions, Chou-Fasman alpha-regions, beta-regions, and turn-regions, Kyte-Doolittle hydrophilic regions and hydrophobic regions, Eisenberg alpha- and beta-amphipathic regions, Karplus-Schulz flexible regions, Emini surface-forming regions and Jameson-Wolf regions of high antigenic index. Among highly preferred polynucleotides of the invention in this regard are those that encode polypeptides comprising regions that combine several structural features, such as several (e.g., 1, 2, 3 or 4) of the features set out above.

Additionally, Kyte-Doolittle hydrophilic regions and hydrophobic regions, Emini surface-forming regions, and Jameson-Wolf regions of high antigenic index (i.e., containing four or more contiguous amino acids having an antigenic index of greater than or equal to 1.5, as identified using the default parameters of the Jameson-Wolf program) can routinely be used to determine polypeptide regions that exhibit a high degree of potential for antigenicity. Regions of high antigenicity are determined from data by DNASTAR analysis by choosing values which represent regions of the polypeptide which are likely to be exposed on the surface of the polypeptide in an environment in which antigen recognition may occur in the process of initiation of an immune response.

Preferred polypeptide fragments of the invention are fragments comprising, or alternatively consisting of, an amino acid sequence that displays a functional activity of the polypeptide sequence of which the amino acid sequence is a fragment.

By a polypeptide demonstrating a "functional activity" is meant, a polypeptide capable of displaying one or more known functional activities associated with a full-length (complete) protein of the invention. Such functional activities include, but are not limited to, biological activity, antigenicity [ability to bind (or compete with a polypeptide for binding) to an anti-polypeptide antibody], immunogenicity (ability to generate antibody which binds to

a specific polypeptide of the invention), ability to form multimers with polypeptides of the invention, and ability to bind to a receptor or ligand for a polypeptide.

Other preferred polypeptide fragments are biologically active fragments. Biologically active fragments are those exhibiting activity similar, but not necessarily identical, to an activity of the polypeptide of the present invention. The biological activity of the fragments may include an improved desired activity, or a decreased undesirable activity.

In preferred embodiments, polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the antigenic fragments of the polypeptide of SEQ ID NO:Y, or portions thereof. Polynucleotides encoding these polypeptides are also encompassed by the invention.

Table 8

Contig ID/ Sequence ID	Epitopes
390631	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4278 as residues: Asn-1 to Asn-6.
410299	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4279 as residues: Trp-26 to Met-31.
456200	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4280 as residues: Pro-16 to His-26, Arg-45 to Gly-51.
471563	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4283 as residues: Gly-37 to Glu-47.
488131	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4284 as residues: Met-26 to Leu-32, Gly-41 to Asn-46.
500696	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4286 as residues: Lys-16 to Glu-31, Ser-47 to Glu-54.
506406	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4288 as residues: Thr-110 to Tyr-118.
506619	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4289 as residues: Cys-50 to Phe-57, Phe-69 to Asp-76, Ser-89 to Gln-104, Glu-145 to Leu-153.
507852	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4290 as residues: Glu-8 to Trp-18, Arg-46 to Ala-51.
509423	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4291 as residues: Tyr-50 to Ser-56, His-58 to Tyr-65.
524721	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4294 as residues: Pro-1 to Ser-8.
524901	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4295 as residues: Leu-34 to Lys-39, Lys-57 to Gly-63.
527600	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4296 as residues: Val-28 to Gly-34, His-57 to His-63.
529050	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4298 as residues: Asn-2 to Lys-8.
529465	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4299 as residues: Ala-12 to Gln-24.
532810	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4302 as residues: Pro-1 to Trp-7, Glu-124 to Trp-130.
541126	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4304 as residues: Thr-1 to Asn-10, Ala-72 to Gly-77, Val-84 to Gly-90.
542268	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4305 as residues: Pro-34 to Pro-40, Pro-45 to Ser-50, Gly-73 to Gly-82.
547920	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4306 as residues: Pro-28 to Thr-35.
552465	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4310 as residues: Pro-4 to Gly-10, Thr-17 to Leu-29, Pro-53 to Gly-58, Gln-78 to Lys-86, Pro-88 to Lys-94, His-137 to Gly-142.

554369	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4311 as residues: Gln-20 to Gln-27.
557152	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4312 as residues: Ser-69 to Pro-74.
557230	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4313 as residues: Pro-21 to Cys-31, Val-34 to Gly-42.
570796	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4315 as residues: Glu-34 to Ala-39.
573181	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4316 as residues: Gly-4 to Arg-11, Gly-17 to Ala-24.
573793	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4318 as residues: Glu-4 to Ser-9.
573796	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4319 as residues: Pro-4 to Asn-13, Asn-57 to Arg-66, Pro-89 to Asn-99.
574927	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4321 as residues: Asp-1 to Ile-6, Pro-37 to Gln-42, Pro-61 to Trp-68.
575139	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4322 as residues: Met-2 to Asp-9.
575591	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4323 as residues: Ala-2 to Gly-11.
577390	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4325 as residues: Glu-53 to Leu-58, Gln-60 to Glu-65.
577685	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4326 as residues: Ile-5 to Gln-12, Leu-42 to Asn-51.
578660	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4328 as residues: His-1 to Phe-6, Val-11 to Arg-23.
580860	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4329 as residues: Ser-14 to Asn-22.
581143	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4330 as residues: Ile-1 to Gly-6.
584899	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4331 as residues: Ala-29 to Asn-35.
600669	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4332 as residues: Cys-1 to Ala-18, Cys-55 to Ile-61.
611839	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4333 as residues: Arg-35 to Gly-41.
614078	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4334 as residues: Glu-8 to Leu-14.
630230	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4338 as residues: Arg-77 to Lys-83.
637605	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4340 as residues: Ser-1 to Val-11.
638125	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4341 as residues: Ser-7 to Glu-12, Pro-20 to Ser-26, Arg-31 to Glu-43, Ala-69 to Glu-80, Val-90 to His-95, Pro-100 to Ser-107, Ser-109 to Glu-115, Ala-117 to Arg-124.
638249	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 4343 as residues: Asp-1 to Pro-28, Gln-73 to Ser-79, Ile-91 to Gly-96, Tyr-99 to Asp-109, Gln-183 to Pro-193, Val-249 to Thr-261.
638319	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4344 as residues: Gly-23 to Gly-28, Asp-35 to Gln-53.
651380	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4345 as residues: Thr-16 to Lys-35, Lys-46 to Arg-51.
651876	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4346 as residues: Arg-1 to Asp-12, Pro-25 to Ala-34, Ala-50 to Gly-55, Glu-66 to Lys-86.
653175	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4347 as residues: Thr-45 to Asn-50.
655544	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4348 as residues: Arg-2 to Asp-18, Leu-45 to Leu-51.
656722	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4349 as residues: Gln-21 to Leu-38.
659801	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4350 as residues: Gly-2 to Gly-20, Pro-45 to Ala-51, Glu-105 to Gln-112, Gln-117 to Glu-122, Ala-207 to Leu-215.
660020	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4351 as residues: Ser-40 to Thr-52.
664481	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4353 as residues: Gly-1 to Glu-15, Phe-20 to Tyr-25, Phe-53 to Asn-58, Glu-82 to Lys-93.
665154	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4354 as residues: Pro-18 to Arg-29.
668040	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4356 as residues: Glu-5 to Ala-14, Arg-69 to Ala-76, Ala-114 to Glu-120, Ser-132 to Leu-137.
668717	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4358 as residues: Arg-3 to Gly-12, Ala-51 to Asp-65, Leu-78 to Glu-84, Arg-118 to Asp-131, Leu-157 to Asn-168.
671361	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4360 as residues: Asn-1 to Ser-6, Glu-15 to Gln-20.
674203	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4361 as residues: Gly-7 to Ile-13.
674745	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4362 as residues: Val-17 to Arg-26, Lys-38 to Leu-48, Gln-129 to Trp-136, Gln-258 to Leu-263, Ala-272 to Glu-284, Pro-380 to Asp-391.
674761	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4363 as residues: Ala-14 to His-19.
677212	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4364 as residues: Gly-1 to Ser-14, Asn-29 to Trp-34, Lys-50 to Arg-60.
685895	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4366 as residues: Arg-28 to Ser-33.
688040	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4367 as residues: Thr-2 to Ser-7, Pro-132 to Asp-138, Ile-161 to Pro-170, Pro-212 to Asn-217, Gly-280 to Gln-313, Ser-332 to His-337,

	Asn-366 to Gly-372.
688044	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4368 as residues: Asn-33 to Pro-55, Lys-67 to Arg-74, Gly-85 to Tyr-94, Arg-101 to Pro-115, Ser-123 to Cys-129, Pro-155 to Val-162, Pro-172 to Cys-184.
691124	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4370 as residues: Pro-27 to Arg-35.
691721	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4371 as residues: Lys-23 to Gln-29, Gly-59 to Asn-77.
693582	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4372 as residues: Lys-12 to Lys-17.
696007	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4373 as residues: Gln-93 to Arg-101, Tyr-104 to Thr-113, His-134 to Gln-145, Ser-154 to Gln-165, Val-231 to Pro-248.
703700	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4377 as residues: Lys-1 to Ser-21.
705461	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4378 as residues: Ala-53 to Glu-59, Thr-69 to Gln-77, Glu-107 to Trp-114.
707464	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4382 as residues: Glu-1 to Tyr-14, Lys-41 to Arg-51, Thr-54 to Arg-73, Gly-77 to Thr-84, Thr-92 to Ser-100, Gln-107 to Arg-112, Ala-114 to Ser-141.
709015	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4383 as residues: Pro-62 to Ser-67.
711878	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4387 as residues: Ser-3 to Lys-10.
712638	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4388 as residues: Leu-31 to His-36, Val-94 to Phe-105.
715343	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4392 as residues: Phe-7 to Ile-12, Leu-17 to Ser-24.
716212	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4393 as residues: Ser-1 to Trp-6, Pro-8 to Pro-21, Arg-60 to Asp-65, Tyr-70 to Lys-80, Lys-116 to Met-121.
717222	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4394 as residues: Glu-40 to Ala-45, Pro-66 to Ser-80, Gly-99 to Ala-107.
719829	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4396 as residues: Leu-15 to Cys-20.
721985	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4397 as residues: Asp-1 to Leu-19.
722249	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4398 as residues: Ala-54 to Gly-59, Ser-67 to Gly-78, Ala-131 to Pro-136, Pro-151 to His-157, Pro-172 to Asn-181, His-183 to Gln-192, Ala-200 to Asn-208, Thr-220 to Ile-226, Glu-335 to Arg-341, Ser-397 to Cys-404, Lys-415 to Phe-423, Lys-432 to Leu-437.
722258	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4399 as residues: Trp-15 to Ala-24, Arg-38 to Glu-45, Tyr-51 to Gly-59.

725110	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4401 as residues: Leu-23 to Asn-32.
725201	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4402 as residues: Asn-1 to Ser-9, Leu-49 to Leu-64, Leu-68 to Arg-73, Lys-83 to Thr-90.
727365	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4404 as residues: Val-36 to Lys-51, Asn-59 to Asn-76, Val-91 to Lys-107, Leu-112 to Cys-135, Arg-140 to Lys-150, Pro-157 to Glu-173, Thr-188 to Lys-201, Lys-207 to Ile-226, Leu-234 to Thr-258, Glu-260 to Ile-268, Ser-275 to Lys-286, Val-288 to Glu-299.
731881	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4407 as residues: Lys-8 to His-18.
734012	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4411 as residues: Lys-34 to Ser-39.
735603	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4412 as residues: His-1 to Gln-6, Glu-19 to Val-26.
739061	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4413 as residues: Asn-7 to Lys-13.
741134	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4414 as residues: Pro-10 to Trp-18.
741804	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4416 as residues: Asp-21 to Ser-30, His-37 to Lys-48, Phe-75 to Arg-82.
742220	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4417 as residues: Val-17 to Pro-23, Ser-72 to His-79, Thr-93 to Ile-100, Pro-102 to Asp-108, Asn-111 to Tyr-117, Gly-134 to Lys-141.
744605	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4418 as residues: Asp-1 to Lys-11.
745368	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4420 as residues: Lys-10 to Ser-16, Pro-30 to Arg-37.
750486	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4422 as residues: Asp-21 to Asp-28, Ser-34 to Asp-40.
751119	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4423 as residues: Gly-1 to Gly-13, Gly-18 to Glu-29.
753226	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4425 as residues: Asp-1 to Arg-9, Asn-51 to Cys-57, Cys-125 to Leu-137, Cys-153 to Trp-166, Leu-181 to Glu-186, Ser-207 to Thr-212.
756466	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4427 as residues: Ser-1 to Asn-8.
756649	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4429 as residues: Gly-1 to His-10, His-21 to Asp-32.
757213	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4430 as residues: Ala-17 to Leu-23, Gly-28 to Gly-42, His-55 to Glu-62, Gly-92 to Ala-100.
757508	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4431 as residues: Ser-23 to Arg-32, Glu-39 to Thr-45, Glu-52 to Lys-57.
757980	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4433 as residues: Phe-9 to His-21.

760141	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4434 as residues: Ser-15 to Gly-21, Asp-35 to His-41, Glu-45 to Lys-68, Thr-91 to Trp-103, Glu-105 to Gln-116, Asp-124 to Gly-130, Asp-137 to Thr-147, Glu-162 to Gly-188, Lys-205 to Gly-212, Asn-223 to Trp-229, Arg-241 to Lys-254.
761491	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4435 as residues: Gly-55 to Glu-63.
764179	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4438 as residues: Asn-1 to Thr-7.
766961	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4439 as residues: Leu-5 to Glu-16.
768034	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4441 as residues: Ser-20 to Lys-29.
769965	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4442 as residues: Asn-1 to Ser-9, Pro-11 to Cys-38, Pro-41 to Val-46, Trp-55 to Ser-62, Pro-73 to Phe-78, Leu-97 to Gln-103, Arg-110 to Gly-116.
771486	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4443 as residues: Glu-16 to Lys-21.
772044	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4444 as residues: Ala-11 to Ala-23.
772357	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4445 as residues: Phe-61 to Glu-66.
772876	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4446 as residues: Arg-80 to Thr-91.
774019	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4447 as residues: Ser-1 to Cys-9, Gln-22 to Gln-28, Gly-41 to Gly-47, Leu-57 to Arg-66.
774516	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4449 as residues: Leu-41 to Gln-48.
775355	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4450 as residues: Ser-40 to Ala-46.
775367	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4451 as residues: Lys-8 to Lys-28.
775791	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4452 as residues: Arg-19 to Asp-29, Asn-81 to Lys-86.
778583	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4455 as residues: Thr-10 to Trp-16, Gly-41 to Phe-46, Ser-55 to Phe-65.
779588	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4457 as residues: Leu-19 to Lys-26.
781085	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4458 as residues: Ala-57 to Ser-64, Lys-69 to Thr-75.
781366	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4460 as residues: Arg-24 to Pro-35, Gly-72 to His-77.
781376	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4461 as residues: Pro-39 to Cys-44, Pro-54 to Gly-65.
782276	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4463 as residues: Ile-1 to Gln-9, Arg-27 to Pro-34, Val-36 to

	Pro-60, Lys-86 to Asp-95, Lys-102 to Ser-113, Ser-118 to Asn-130, Asp-132 to Lys-143, Asp-151 to Glu-157.
783413	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4465 as residues: Lys-33 to Val-39.
783668	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4466 as residues: Gly-8 to Leu-17, Leu-27 to Ser-36, Pro-41 to Ser-51.
785087	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4468 as residues: Lys-26 to Lys-42.
785465	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4470 as residues: Gly-6 to Arg-21.
788626	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4471 as residues: Leu-1 to Lys-21, Asp-26 to Asp-34, Ala-85 to Tyr-90.
788838	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4472 as residues: Ala-14 to Ile-19, Glu-48 to Glu-54, Gln-76 to Glu-89.
789419	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4474 as residues: Pro-16 to Asn-22.
789631	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4475 as residues: Thr-10 to Gly-18.
789872	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4476 as residues: Ser-1 to Phe-16, His-36 to Gly-45, Pro-49 to Pro-71, Pro-77 to Lys-84.
790190	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4477 as residues: Ser-41 to Thr-49.
790547	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4478 as residues: Leu-1 to Gln-19, Glu-24 to Pro-31, Lys-36 to Cys-45.
792557	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4483 as residues: Lys-51 to Arg-58.
792624	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4484 as residues: Ser-15 to Lys-22, Pro-25 to Gly-47, Glu-55 to Thr-64.
793437	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4485 as residues: Pro-1 to Gly-7, Thr-9 to Phe-18, Ala-32 to Trp-45, Pro-53 to Leu-60, Thr-66 to Arg-71.
796023	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4488 as residues: Ala-69 to Cys-74, Ile-131 to Glu-136, Gly-161 to Asn-169, Leu-174 to Trp-185.
796181	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4489 as residues: Ser-26 to Arg-32, Ala-81 to Cys-87, Pro-118 to Lys-126.
797079	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4490 as residues: Phe-2 to Cys-8, Ser-30 to His-36.
797477	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4491 as residues: Gly-14 to Leu-24.
797486	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4492 as residues: Ser-18 to Gln-25, Pro-35 to Thr-44, Pro-94 to

	Trp-99, Gln-108 to Ser-120, Pro-182 to Gly-187, Pro-192 to Gly-198, Trp-284 to Thr-292.
797747	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4493 as residues: Asn-2 to Ala-11, His-35 to Pro-40.
805448	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4496 as residues: Leu-1 to Tyr-7, Gly-15 to Asn-26.
806690	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4497 as residues: Gly-34 to Trp-43, Trp-48 to Lys-54.
810870	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4498 as residues: Val-12 to Ile-21.
811047	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4499 as residues: Phe-8 to Gly-13, Glu-16 to Asn-34, Ser-179 to Cys-185, Thr-206 to Phe-219.
812745	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4500 as residues: Gly-50 to His-62, Lys-169 to Arg-174, Thr-200 to Asp-206, Leu-208 to Gly-214, Pro-244 to Glu-254, Asp-304 to Gln-310, Gln-318 to Trp-323, Thr-410 to His-415.
812871	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4502 as residues: Ser-22 to Arg-29.
813482	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4503 as residues: Cys-53 to His-65, Glu-71 to Gln-91, Asn-123 to Phe-131, Ala-157 to Pro-171, Gln-197 to Ala-238.
815696	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4504 as residues: Arg-80 to Glu-86, Pro-102 to Thr-110, Pro-113 to Phe-122, Asn-124 to Tyr-131, Thr-149 to Cys-156, Thr-184 to Pro-196, Ser-203 to Cys-215, Gly-226 to Asp-231, Pro-285 to Gly-290.
821335	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4505 as residues: Ser-47 to Cys-59.
827315	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4508 as residues: Asp-29 to Phe-36, Phe-39 to Gly-51.
827740	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4511 as residues: Ile-22 to Lys-28.
828180	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4512 as residues: Glu-38 to Arg-52, Ser-56 to Val-62.
828552	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4513 as residues: Ser-1 to Ser-10, Leu-64 to Asp-69, Gly-102 to Arg-107.
828919	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4515 as residues: Thr-49 to Val-54, Leu-83 to Lys-91, Gly-121 to Thr-130, Asp-165 to Glu-172, Thr-180 to Gly-188.
829084	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4516 as residues: Glu-37 to Trp-47.
829148	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4517 as residues: Pro-33 to Lys-40.
829161	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4518 as residues: Met-5 to Glu-18, Asp-24 to Tyr-30.
830123	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4519 as residues: Ala-20 to Arg-25.
830194	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 4521 as residues: Ala-43 to Lys-51, Glu-66 to Leu-74, His-81 to Glu-88, Arg-98 to Ser-105, Gly-111 to Gln-116, Leu-166 to Lys-182, Leu-261 to Ala-273, Glu-294 to Arg-302, Glu-335 to Asp-347.
830343	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4524 as residues: Ser-19 to Gly-24, Lys-73 to Leu-94, Ala-101 to Arg-112, Gly-137 to Ala-143, Glu-160 to Arg-168, Ser-173 to Lys-183.
830347	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4525 as residues: Asp-33 to Ala-39.
830382	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4526 as residues: Leu-47 to Val-63, Ser-69 to Ser-76.
830465	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4528 as residues: Pro-1 to Thr-8, Ser-54 to Gln-61, Thr-80 to Thr-85, Gln-92 to Tyr-98, Gln-154 to Gln-162, Glu-172 to Ile-177, Val-181 to Lys-188, Lys-213 to Asn-225, Ser-234 to Pro-239, Ile-294 to Lys-307, Gly-350 to Asn-355.
830498	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4529 as residues: Pro-39 to Asn-47.
830540	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4530 as residues: Leu-31 to Lys-37, Arg-48 to Asn-54.
830586	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4533 as residues: Pro-1 to Gln-15, Arg-33 to Leu-40, Arg-72 to Ser-78, Leu-98 to Asp-103, Phe-116 to Gly-124, Pro-152 to Arg-158, Thr-193 to Pro-200, Leu-213 to Phe-219, Asp-229 to Lys-237, Lys-246 to Lys-258, Arg-275 to Thr-280, Thr-306 to Lys-312, Leu-320 to Arg-328, Ala-335 to Asn-340, Gly-342 to Trp-349, Cys-364 to Pro-372.
830693	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4535 as residues: Met-2 to Thr-12, Gln-52 to Glu-67, Glu-72 to Val-79, Asn-158 to Arg-165, Met-173 to Gln-180, Glu-200 to Arg-206, Ala-220 to Ala-228, Arg-232 to Leu-242, Asp-246 to Gln-254, Thr-260 to Lys-267, Leu-343 to Glu-349.
830723	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4537 as residues: Ile-68 to Thr-75, Asp-106 to Asp-117.
830743	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4538 as residues: Pro-11 to Phe-16, Thr-48 to Ser-60.
830804	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4539 as residues: Thr-62 to Gly-70.
830816	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4540 as residues: Thr-51 to Asp-61, Pro-92 to Asn-100, Thr-131 to Asn-138, Lys-140 to His-151, Glu-168 to Arg-184, Glu-192 to Glu-197, Ala-202 to Leu-212, Tyr-218 to Lys-223, Ala-239 to Leu-246, Leu-250 to Gly-256, Pro-289 to Glu-295, Lys-314 to Lys-326, Gln-335 to Glu-340, Asp-354 to Ser-359.
830829	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4541 as residues: Pro-16 to His-21, Cys-28 to His-35, Val-43 to Arg-49, Pro-116 to Tyr-123.
830859	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4542 as residues: Gln-13 to His-28, Pro-73 to Gly-80, Pro-87 to Asn-92.
830879	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 4543 as residues: Cys-34 to Leu-44, Ser-60 to Gly-69, Asp-118 to Gly-123, Cys-148 to Gln-154.
830901	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4544 as residues: Arg-8 to Ser-16, Val-32 to Thr-38, Glu-139 to Lys-145, Arg-224 to Arg-232.
831019	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4545 as residues: Phe-16 to Ser-21.
831057	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4546 as residues: Arg-1 to Gly-14, Thr-19 to Gly-25, Ala-31 to Ala-41, Glu-53 to Ile-62, Val-66 to Glu-75, Ser-103 to Asp-113, Ala-135 to Asp-140.
831099	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4547 as residues: Leu-12 to Gly-18, Leu-93 to Ile-98, Lys-165 to Ser-183, Thr-198 to Lys-211, Glu-232 to Gly-237, Pro-239 to Gly-249, Arg-257 to Asp-278, Cys-292 to Glu-297, Arg-306 to Ser-316, Asp-323 to Asn-331, Glu-347 to Gly-354, Thr-365 to Asn-370, Pro-390 to Thr-396, Asn-420 to Ser-433, Val-440 to Gln-451, His-457 to Asp-465, Phe-533 to Met-538, Ala-540 to Tyr-550, Pro-560 to Lys-565.
831117	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4548 as residues: Lys-50 to Tyr-55.
831163	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4549 as residues: Ser-31 to Arg-40.
831212	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4551 as residues: Arg-34 to Gly-45, Pro-50 to Ala-58.
831234	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4552 as residues: Gly-28 to Pro-33, Gln-66 to Gln-72.
831268	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4554 as residues: Ser-16 to Lys-21.
831307	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4555 as residues: Pro-19 to Ile-26, Ala-43 to Thr-49, Ser-52 to Lys-69, Phe-126 to Arg-134, Pro-153 to Phe-161, Ser-192 to Leu-198, Arg-222 to Thr-229.
831390	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4558 as residues: Trp-50 to Gly-55, Leu-109 to Val-119, Phe-146 to Asp-158, Ser-165 to Trp-172, Phe-192 to Ile-197, Leu-241 to Asp-252, Lys-268 to Pro-273, Ser-310 to Lys-315, Asp-334 to Ala-342, Pro-348 to Tyr-353.
831426	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4559 as residues: Gly-8 to Phe-18, His-26 to Phe-41, Glu-56 to Gly-62, Phe-114 to Lys-126, Asn-198 to Ser-203, Asn-234 to Ile-242, Glu-264 to Pro-270.
831453	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4560 as residues: Tyr-34 to His-42, Leu-44 to Leu-49.
831465	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4561 as residues: Thr-2 to Ser-9, Pro-23 to Ser-28, Phe-55 to Ala-60, Phe-72 to Ile-77, Leu-124 to Gly-136, Glu-138 to Val-144.
831586	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4563 as residues: Gln-14 to Glu-28.
831664	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4564 as residues: Lys-1 to Asp-42, Arg-71 to Ala-76, Gln-138

	to Phe-145, Lys-170 to Thr-178, Cys-186 to Asp-192.
831687	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4565 as residues: Ala-56 to Tyr-63.
831753	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4567 as residues: His-10 to Gly-16, Gly-30 to Phe-36, Ala-41 to Lys-47, Phe-63 to Trp-72.
831757	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4568 as residues: Val-81 to Lys-86.
831795	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4569 as residues: Asn-23 to Pro-28, Arg-36 to Ser-42.
831796	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4570 as residues: Pro-1 to Ser-8.
831880	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4571 as residues: Asp-18 to Ser-24, His-34 to Gly-47.
831899	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4572 as residues: Asp-11 to Trp-16, Pro-37 to Thr-44, Pro-74 to Pro-82, Arg-112 to Gln-119, Cys-126 to Arg-138, Arg-199 to Thr-204.
831910	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4573 as residues: Gly-15 to Trp-21, Ser-84 to Leu-93.
831931	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4574 as residues: Asn-29 to Ser-34.
831942	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4575 as residues: Arg-14 to Trp-19, Pro-29 to Gly-37, Cys-51 to Ala-62, Glu-84 to Glu-91, Ile-101 to Pro-107, Glu-118 to Thr-123, Lys-170 to Gln-175, Thr-197 to Lys-228.
832009	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4577 as residues: Leu-17 to Arg-32.
832010	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4578 as residues: Leu-1 to Lys-21, Glu-39 to Cys-47, Lys-49 to Gln-61, His-64 to Gly-76, Thr-83 to Lys-90, His-92 to Ile-99.
832093	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4580 as residues: Pro-29 to Tyr-35, Phe-37 to His-42.
832187	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4583 as residues: Glu-11 to Pro-24, Gly-90 to Leu-96, Ser-109 to Gly-120.
832575	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4588 as residues: Thr-24 to Arg-29, Ala-55 to Tyr-60, Tyr-77 to Asp-89, Leu-108 to Gly-115, Thr-142 to Gly-149.
832593	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4589 as residues: Glu-13 to Glu-18.
832597	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4590 as residues: Val-3 to Asp-13.
834890	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4591 as residues: Arg-8 to Lys-13, Gly-35 to Lys-42, Ala-48 to Lys-54, Ala-105 to Leu-110, Gly-150 to Val-157, Phe-164 to Asn-173.
835079	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4592 as residues: Ser-53 to Pro-60.
835456	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4593 as residues: Thr-2 to Asn-10, Ser-72 to Lys-78, Gly-95 to

	Thr-101, Phe-134 to Ile-147, Lys-163 to Lys-172, Gln-199 to Glu-206, Ala-212 to Trp-224, Lys-230 to His-236, Arg-238 to Glu-244, Asp-249 to Gly-254, Met-260 to Tyr-266, Arg-272 to Arg-279.
835655	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4594 as residues: Lys-24 to Asn-36, Glu-55 to Asn-60.
836203	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4595 as residues: Pro-43 to Cys-49, Ser-67 to Glu-76, Lys-105 to Cys-110.
836762	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4597 as residues: Arg-252 to Phe-260, Ser-315 to Thr-321.
838459	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4600 as residues: Asp-1 to Lys-14.
839262	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4601 as residues: Lys-29 to Asp-36, Gln-98 to Asp-103, Thr-120 to Lys-142, Thr-158 to Ser-170, Ile-188 to Glu-194, Leu-217 to Gly-223, Tyr-245 to His-252.
839750	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4603 as residues: Gln-27 to Pro-33.
840028	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4604 as residues: Ala-16 to Asn-25, His-32 to Asn-37, Pro-97 to Ser-103, Pro-114 to Ser-120.
840675	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4606 as residues: Pro-134 to Thr-145.
840708	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4607 as residues: Ala-27 to Ser-36.
840848	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4609 as residues: Arg-77 to Asn-82, Glu-119 to Arg-124, Gln-156 to Thr-162, Lys-209 to Lys-215.
840860	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4610 as residues: Ile-27 to Asp-41, Glu-43 to Ala-58, Glu-149 to Glu-154, Lys-158 to Ile-165, Glu-167 to Gly-189, Glu-242 to Phe-247, Arg-259 to Phe-268, Ile-283 to Val-291, Thr-295 to Thr-307, Glu-328 to Asp-338, Asp-372 to Gly-387.
841015	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4611 as residues: Tyr-17 to Thr-29, Lys-35 to Glu-40.
841017	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4612 as residues: Gln-1 to Trp-19.
841030	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4613 as residues: Ser-23 to Gln-30.
841241	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4614 as residues: Asp-41 to Ile-52, Thr-59 to Lys-64, Glu-75 to Asn-89, Thr-99 to Thr-105.
841957	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4615 as residues: Gly-7 to Thr-20, Pro-44 to Thr-49, Gln-55 to Gly-61.
846025	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4616 as residues: Gly-8 to Gly-28, Glu-113 to Asn-122, Arg-144 to Gly-214, Ala-218 to Gly-232, Arg-243 to Glu-248, Glu-356 to Ser-366.

846362	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4617 as residues: His-8 to Gly-18, Phe-66 to Asp-72, Pro-95 to Gly-109, Thr-118 to Ala-126, Gly-128 to Gly-135, Pro-187 to Ser-192, Gly-252 to Arg-258, Asp-270 to Cys-277, Ser-339 to Leu-345, Gly-450 to Ala-468.
846384	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4618 as residues: Gly-3 to Leu-9, Arg-35 to Gly-42, Asp-50 to Thr-55, Ser-98 to Asn-103, Pro-172 to Gly-178, Ser-233 to Pro-243, Ala-289 to Gly-294, Thr-302 to Tyr-309, Glu-341 to Trp-347, Pro-349 to Val-359, Pro-414 to Thr-422, Arg-438 to Glu-443, Gln-507 to Thr-518.
846750	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4619 as residues: Thr-27 to Arg-32, Gly-63 to Gly-71, Ile-95 to Gly-101, Asn-108 to Ser-115.
847598	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4621 as residues: Ser-1 to Thr-27.
848119	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4622 as residues: Pro-5 to Lys-10, Ser-29 to Lys-42, Arg-54 to Arg-66.
848746	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4623 as residues: Pro-61 to Asp-68, Arg-88 to Asp-93.
849084	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4624 as residues: Gly-1 to Pro-8, Ala-48 to Tyr-53, Lys-55 to Arg-62, Glu-67 to Leu-75.
849114	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4625 as residues: Asn-30 to Leu-36, Trp-51 to Phe-56, Pro-62 to Trp-68, Gln-98 to Ser-114, Ile-128 to His-134, Pro-146 to His-151, Asp-153 to Tyr-171, Asp-193 to Trp-198, Pro-222 to Thr-234, Ile-237 to Thr-260, Ile-285 to Gly-296, Arg-301 to Gln-308, Val-311 to Asp-328.
849155	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4627 as residues: Pro-6 to Lys-21, Ala-26 to Val-34, Lys-37 to Ser-46, Phe-73 to Val-81, Pro-86 to Arg-92, Gly-101 to Ser-108, Thr-172 to Pro-178, Met-244 to Lys-255.
849159	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4628 as residues: Thr-28 to Ala-33, Asn-93 to Trp-103, Ile-122 to Pro-130, His-132 to Ile-138.
849244	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4629 as residues: Gln-189 to Glu-196, Glu-206 to Pro-211, Ser-226 to Ile-233, Lys-244 to Ser-253.
849254	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4630 as residues: Ala-5 to Cys-11, Cys-14 to Gly-25, Tyr-32 to Gln-38, Glu-62 to Leu-78, Asp-91 to Tyr-102.
849301	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4631 as residues: Ser-37 to Asp-43, Lys-266 to Ser-272, Glu-304 to Thr-318, Leu-345 to Ser-359, Gln-423 to Ala-439.
849317	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4632 as residues: Pro-42 to Trp-47, Arg-49 to Glu-55, Val-62 to Glu-67, Leu-75 to Leu-90, Leu-102 to Gln-107, Ile-154 to Asp-161.
849332	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4633 as residues: Gln-31 to Ser-38, Gly-60 to Arg-65, Thr-148

	to Thr-155, Cys-180 to Cys-189, Val-224 to Pro-232, Leu-250 to Gln-255.
849422	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4634 as residues: Arg-9 to Arg-14.
849492	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4636 as residues: Ser-5 to Arg-11.
849534	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4637 as residues: Met-8 to His-14.
849565	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4638 as residues: Gly-59 to Ala-67.
849583	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4639 as residues: Pro-13 to Pro-18, Pro-24 to Leu-32, Glu-51 to His-59, Leu-83 to Trp-91, Thr-113 to Gln-120, Pro-133 to Asp-138, Arg-141 to Gln-146, Arg-151 to Ser-156, Tyr-160 to Cys-175, Asn-183 to Asn-188, Trp-221 to Lys-231, Ser-271 to Arg-283, Phe-345 to Gly-350, Ser-381 to Asp-386, Gly-417 to Ser-422, Tyr-462 to Asn-471, Glu-505 to Leu-533, Ser-555 to Asp-561, Thr-566 to His-576, Ser-582 to Gln-587.
849589	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4640 as residues: Ser-16 to Val-25, His-105 to Lys-125, Tyr-147 to Ser-155.
849658	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4641 as residues: Ser-1 to Ser-7.
849666	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4642 as residues: Glu-12 to Met-22.
849679	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4643 as residues: Lys-208 to Asp-214, Glu-278 to Gln-289, Glu-296 to Arg-303, Lys-358 to Leu-364.
849741	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4644 as residues: Arg-30 to His-40.
849783	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4645 as residues: Arg-1 to Pro-14, Gln-47 to Cys-52, Asn-57 to Pro-63, Ser-277 to Lys-282, Leu-326 to Ser-332.
850211	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4646 as residues: Asn-8 to Asn-13.
850254	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4647 as residues: Asn-1 to Arg-6.
850264	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4648 as residues: Ala-33 to Gly-47, Glu-73 to Lys-78, Ser-111 to Asp-126, Gln-139 to Ala-147, Cys-206 to Gly-211, Ser-218 to Asn-225, Leu-237 to Pro-242, Arg-277 to Leu-282, Lys-284 to Lys-291, Ala-357 to Asn-363, Asn-380 to Leu-387, His-475 to Arg-489, Pro-494 to Lys-515.
850273	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4649 as residues: Pro-31 to Lys-38.
850371	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4650 as residues: Lys-32 to Thr-38.
850859	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4651 as residues: Phe-18 to Lys-24, Pro-53 to Lys-75, Tyr-115 to Asp-124, Lys-130 to Leu-137.

851066	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4652 as residues: Pro-6 to Asp-12, Arg-28 to Thr-37, Ile-50 to Lys-59, Ala-63 to Gly-70, Pro-89 to Tyr-96, Ser-103 to Ile-111, Thr-114 to Phe-121, Asp-141 to Pro-147, Arg-162 to Thr-172.
851217	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4653 as residues: Gln-24 to Asp-36, Ser-54 to Thr-65.
852170	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4654 as residues: Leu-13 to Glu-26.
852387	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4655 as residues: Ala-37 to Thr-43.
852812	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4656 as residues: Pro-27 to Pro-33, Asp-92 to Gly-99, Asp-109 to Lys-115, Pro-117 to Trp-130, Phe-208 to Thr-215, Ile-219 to Lys-231, Arg-251 to Asp-257.
853175	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4657 as residues: Gln-21 to Ser-31, Tyr-74 to Gln-81, Leu-115 to Arg-121.
854063	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4659 as residues: Pro-3 to Gly-43.
854073	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4660 as residues: Glu-13 to Val-19, Gln-32 to Met-40, Asp-49 to Arg-54, Leu-74 to Ser-86.
854987	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4661 as residues: Arg-1 to Arg-12.
855130	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4662 as residues: Glu-64 to Tyr-69.
856227	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4663 as residues: Pro-18 to Arg-35, Ala-42 to Gly-54, His-69 to Gln-76, Asp-105 to Arg-110, Arg-121 to Asp-126, Pro-150 to Gln-160.
856243	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4664 as residues: Ala-1 to Ala-8, Lys-78 to Met-86, Arg-126 to Lys-137.
856354	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4665 as residues: Thr-21 to Thr-33.
858178	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4670 as residues: Gly-2 to Gln-8, Lys-68 to Gln-76, Pro-200 to Gly-208, Ser-246 to Gly-257, Gly-280 to Gly-289, Ala-302 to Gly-308, Gly-319 to Asn-331, Leu-352 to Ser-361, Glu-378 to Glu-399, Ala-401 to His-414.
858606	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4671 as residues: Trp-86 to Pro-91.
858894	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4672 as residues: Lys-1 to Ser-9.
858958	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4674 as residues: Pro-19 to Ala-25.
859171	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4675 as residues: Lys-12 to Val-18, Leu-32 to Ser-47, Glu-55 to Asp-66, Glu-94 to Glu-109, Val-115 to Ile-127, Asp-166 to Ser-177, Lys-213 to Glu-225, Glu-241 to Lys-264, Met-322 to Phe-343, Asn-371 to Glu-379, Ala-396 to Ser-407, Ser-415 to Pro-422, Pro-435 to Pro-440,

	Ile-459 to Gln-466, Phe-471 to Phe-476.
859352	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4676 as residues: Thr-11 to Thr-21.
859354	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4677 as residues: Arg-60 to Pro-70, Ser-138 to Ser-145, Cys-157 to Lys-163, Pro-204 to Thr-211, Val-213 to Ser-219, Thr-224 to Thr-230, Pro-297 to Asp-302, Ile-332 to Glu-339, Glu-385 to Ser-390.
859702	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4678 as residues: Lys-7 to Arg-26.
860915	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4679 as residues: Gln-50 to Gly-56.
861209	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4680 as residues: Leu-6 to Thr-15, Pro-85 to Asp-90, Thr-98 to Pro-104.
861534	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4681 as residues: Arg-24 to Ser-30.
861697	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4682 as residues: Gly-8 to Trp-16, Asn-22 to Phe-28, Phe-68 to Arg-75, Ser-93 to Ser-101, Glu-114 to Ile-126, Pro-134 to Phe-143, Gly-165 to Gly-176, Lys-191 to Glu-201, Thr-218 to Lys-227, Tyr-289 to Gln-296.
861826	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4683 as residues: Gly-17 to Pro-23.
861909	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4684 as residues: His-13 to Cys-20, Glu-83 to Cys-93, Pro-131 to Asp-137, Cys-142 to Asn-148, Pro-150 to Gln-155, Pro-160 to Gly-166, Ser-194 to Gly-206, Thr-251 to Ser-258, Gly-267 to Asp-272, Lys-286 to Gly-299, Gln-353 to Leu-366, Thr-368 to Gln-381, Gln-387 to His-397, Glu-404 to Ala-410, Phe-412 to Ala-418, Phe-424 to Ala-439.
862237	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4687 as residues: Cys-20 to Val-27.
862285	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4689 as residues: Ala-26 to Gln-32.
862456	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4691 as residues: Pro-20 to Gly-26, Glu-66 to Trp-76.
862486	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4692 as residues: Cys-36 to Pro-44, His-145 to Asn-151, Asp-186 to Glu-195, Glu-271 to Ile-281, Asp-296 to Pro-302.
863865	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4694 as residues: Gly-1 to Pro-6, Leu-17 to Ala-22, Phe-40 to Ala-45.
863944	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4695 as residues: Glu-102 to Asp-111, Glu-144 to Val-149, Tyr-169 to Lys-180, Arg-239 to Arg-245, Gln-247 to Asp-253, Gly-266 to Asn-278.
864428	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4696 as residues: Thr-1 to Leu-11, Arg-26 to Gly-41, Arg-81 to Asp-91, Asp-144 to Thr-159, Asn-170 to Ala-178, Glu-180 to Lys-191, Cys-249 to Trp-255.
865044	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 4699 as residues: Thr-17 to Gly-34, Pro-66 to Gly-71, Pro-73 to Val-78.
865421	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4701 as residues: Ala-10 to Glu-16.
866287	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4702 as residues: Val-1 to Leu-6.
866300	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4703 as residues: Thr-28 to Trp-35.
867388	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4707 as residues: Ser-39 to Phe-56, Asp-77 to Arg-84, Glu-103 to Lys-129, Lys-134 to Lys-143, Pro-219 to Gly-227, His-289 to Glu-297, Ala-353 to Arg-360, Pro-409 to Tyr-423, His-433 to Thr-441, Phe-445 to Pro-453, Gln-480 to Leu-488, Pro-526 to Thr-540.
867842	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4708 as residues: Leu-38 to His-44, Leu-46 to Gln-55, Leu-65 to Gln-70, Ile-80 to Arg-88.
867923	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4709 as residues: Leu-17 to Leu-23, Gln-51 to Thr-57.
868035	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4710 as residues: Ser-8 to Pro-13, Pro-21 to Ser-33.
868135	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4711 as residues: Glu-27 to Arg-32, Glu-86 to Gly-93, Ala-117 to Glu-127, Glu-148 to Asn-154, Asp-163 to Ser-174.
868173	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4712 as residues: Thr-6 to Asn-14, Pro-19 to Lys-41.
868224	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4713 as residues: Glu-21 to Glu-31, Arg-37 to Ser-45, Asn-47 to Gly-53, Pro-64 to Arg-70, Ser-97 to Tyr-102, Asp-110 to Val-116.
868655	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4714 as residues: Phe-5 to Ser-21, Ser-24 to Ser-32, Ser-40 to Ser-64, Leu-73 to Glu-81, Pro-122 to Leu-130, Glu-186 to Leu-193, Leu-204 to Trp-213, Ser-278 to Ala-285, Glu-376 to Asp-384, Phe-401 to Val-407.
869698	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4715 as residues: Asp-1 to Ser-6, Glu-16 to Ser-26, Lys-66 to Pro-76, Leu-93 to Arg-99, Val-153 to Lys-164, Glu-177 to Asp-183, Ser-188 to Leu-193, Arg-210 to Ser-220, Thr-229 to Ser-244, Pro-283 to Phe-297.
870190	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4716 as residues: Arg-112 to Lys-118, Gln-168 to His-175.
870349	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4717 as residues: Thr-34 to Ala-39, Ser-42 to Arg-47.
870522	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4719 as residues: Asn-32 to Gly-39, Gly-116 to Lys-124.
870896	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4720 as residues: Leu-21 to Gly-30, Arg-41 to Cys-49, Arg-57 to Phe-62.
871071	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4721 as residues: Arg-1 to Cys-13, Lys-26 to Ile-34.

871225	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4722 as residues: Pro-23 to Gly-36, Arg-77 to Ile-84.
871428	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4723 as residues: Gly-6 to Pro-11.
871498	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4724 as residues: Arg-12 to Ser-18.
871732	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4725 as residues: Ser-56 to Thr-62.
871756	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4726 as residues: Ser-31 to Gly-38.
871821	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4727 as residues: Tyr-25 to Lys-30, Lys-36 to Ile-43, Lys-52 to Gln-69, Glu-76 to Asp-81, Arg-92 to Trp-104, Leu-120 to Lys-126, Ser-129 to Ser-135, Ser-139 to Thr-156, Pro-165 to Glu-178, Ser-181 to Thr-186, Tyr-196 to Lys-201, Cys-225 to Lys-230, Glu-234 to Glu-242.
872354	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4729 as residues: Thr-33 to Lys-43, Lys-81 to Ser-100.
872535	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4730 as residues: Ser-33 to Gly-41, Asn-66 to Asp-73, Cys-136 to Gly-141, Met-187 to Thr-193.
872551	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4731 as residues: Cys-1 to Cys-7, Asp-12 to Arg-27, Pro-49 to Tyr-59, Leu-157 to Leu-163, Ser-243 to Thr-248, Thr-349 to Ser-362, Phe-376 to Ser-385.
872640	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4732 as residues: Tyr-1 to Asp-8, Tyr-33 to Gly-39, Glu-57 to Glu-64, Ser-74 to Val-82, Lys-203 to Arg-214, Gln-229 to Pro-235, Gln-310 to Ala-317, Glu-326 to Asn-331, Gly-366 to Asn-372, Leu-392 to Asn-403, Ala-459 to Gln-466, Asp-494 to His-502, Pro-514 to Leu-522, Glu-614 to Leu-621, Asn-642 to His-651.
872802	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4734 as residues: Ser-1 to Gly-8, Arg-30 to Trp-37.
872852	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4735 as residues: Arg-1 to Gln-7, Arg-22 to Arg-28, Gln-93 to Glu-100.
874307	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4739 as residues: Tyr-1 to Glu-6.
874309	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4741 as residues: Ser-2 to Val-13, Lys-59 to Ser-77.
874310	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4742 as residues: Thr-25 to Thr-31.
874320	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4743 as residues: Ser-1 to Ala-7, Ala-26 to Gly-35, Gly-53 to Phe-59, Arg-67 to Arg-84.
874325	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4744 as residues: Arg-1 to Leu-7, Ser-13 to Val-20, Leu-38 to Glu-44, Leu-79 to Gly-84, Thr-92 to Ala-100, Pro-110 to Ser-119.
874327	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4745 as residues: Asp-45 to Thr-51, Leu-55 to Gly-63, Asp-88 to Phe-97, Gly-185 to Trp-200, Gly-214 to Ser-222, Thr-239 to Val-246.

874329	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4747 as residues: Glu-10 to Ala-16, Asp-32 to His-37.
874348	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4750 as residues: Asn-10 to Thr-15.
874349	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4751 as residues: Pro-1 to Ala-7, Asp-38 to Val-54.
874350	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4752 as residues: Ser-35 to Glu-46, Lys-89 to Asp-94.
874358	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4754 as residues: Phe-34 to Lys-45, Asn-122 to Ser-127, Asp-160 to Lys-165.
874362	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4755 as residues: Ile-1 to Ser-12, His-35 to Glu-47, Glu-55 to Ser-71, Gly-74 to Ser-82, Ala-97 to Ser-139, Lys-153 to Arg-166, Arg-171 to Leu-180, Asp-304 to Gly-309, Glu-373 to Glu-378, Ser-495 to Tyr-500.
874368	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4756 as residues: Ala-14 to Pro-20, Thr-26 to Asn-32, Lys-55 to Ala-61.
874370	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4758 as residues: Arg-48 to Tyr-55, Tyr-64 to Gly-76.
874372	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4759 as residues: Ala-1 to Gly-16, Lys-33 to Thr-44, Leu-52 to Asp-57, Gln-69 to Phe-78, Gly-91 to Cys-104.
874396	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4760 as residues: Leu-39 to Ser-44.
874399	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4761 as residues: Pro-36 to Glu-46, Asn-151 to Asn-170, Tyr-175 to Thr-180, Glu-182 to Glu-190, Thr-202 to Glu-212, Arg-238 to Ser-245, Pro-292 to Gly-302.
874401	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4763 as residues: Gly-10 to Gly-19, Lys-44 to Arg-61, Leu-112 to Lys-117.
874403	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4764 as residues: Phe-20 to Lys-27, Lys-66 to Arg-82.
874413	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4768 as residues: Phe-1 to Asp-11.
874414	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4769 as residues: Ser-54 to Gly-59, Asp-63 to Lys-71.
874416	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4770 as residues: Thr-7 to Ser-14, Pro-28 to Asp-36.
874417	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4771 as residues: Tyr-16 to Ala-26, Ser-43 to Asp-54.
874423	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4773 as residues: Lys-1 to Gly-8, Ser-55 to Leu-60.
874427	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4776 as residues: Tyr-64 to Thr-70.
874435	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4780 as residues: Pro-77 to Lys-95.

874437	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4782 as residues: Glu-15 to Glu-29, Ala-43 to Asp-49, Ile-53 to Asp-65, Lys-86 to Pro-94, Val-102 to Gly-121, Asp-160 to Ser-165, Asn-234 to Lys-241, Glu-309 to Leu-321, Lys-368 to Ala-377, Thr-382 to Asp-400, Ser-407 to Asn-415, Asp-417 to Leu-448.
874438	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4783 as residues: Pro-19 to Leu-28, Pro-44 to Ser-60.
874447	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4784 as residues: Pro-1 to His-6.
874449	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4785 as residues: Glu-10 to Gly-20, Lys-41 to Met-46, Leu-60 to Gln-70.
874455	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4787 as residues: Ile-7 to Lys-15.
874459	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4789 as residues: Tyr-1 to Gly-14, Arg-33 to Pro-41, Pro-58 to Asp-66.
874468	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4793 as residues: Thr-10 to Arg-15.
874469	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4794 as residues: Gln-19 to Lys-26.
874470	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4795 as residues: Arg-3 to Gly-18, Pro-73 to Glu-86, Ser-104 to Pro-117, Gln-143 to Arg-150, Asp-158 to Arg-174, Leu-197 to Ser-222, Ala-235 to Glu-256, Arg-296 to Arg-309.
874473	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4797 as residues: Ser-28 to Arg-37, Arg-83 to Gln-97.
874480	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4801 as residues: Lys-2 to Gly-8, Pro-54 to Asn-65.
874482	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4803 as residues: Lys-52 to Asn-60.
874484	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4804 as residues: Lys-24 to Ser-38.
874486	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4806 as residues: Trp-1 to Pro-10.
874492	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4807 as residues: Arg-33 to Cys-44.
874495	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4808 as residues: Asp-17 to Val-23, Asp-35 to Trp-40, Phe-63 to Arg-68, Ala-150 to Thr-156.
874498	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4809 as residues: Ala-37 to Asn-42, Ala-94 to Glu-106.
874499	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4810 as residues: Met-3 to Pro-10, Pro-18 to Arg-23, Pro-62 to Gly-69.
874503	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4811 as residues: Gln-10 to Glu-21, Ser-28 to Arg-33, Glu-107 to Leu-113, Glu-126 to Ser-133.
874504	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 4812 as residues: Pro-53 to Gly-65, Ala-74 to Lys-96, Lys-107 to Lys-116.
874506	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4814 as residues: Ile-81 to Arg-91.
874518	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4816 as residues: Pro-16 to Ser-24, Thr-34 to Pro-39.
874519	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4817 as residues: Asp-19 to Glu-32, Glu-43 to Glu-80.
874522	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4818 as residues: Pro-6 to Pro-12.
874524	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4819 as residues: Asp-16 to Val-21, Leu-33 to Asp-50.
874527	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4820 as residues: Val-1 to Thr-11, Lys-60 to His-73, Met-84 to Gln-99, Thr-119 to Asp-126.
874528	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4821 as residues: Pro-14 to Arg-23, Ala-171 to Ser-178.
874529	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4822 as residues: Pro-7 to Arg-15.
874545	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4830 as residues: Gly-1 to Asp-6.
874550	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4832 as residues: Arg-20 to Lys-28, Leu-40 to Ala-45, Lys-76 to Ser-81, Leu-106 to Lys-111.
874552	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4834 as residues: Ser-70 to Gly-76.
874553	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4835 as residues: Lys-70 to His-78, Lys-149 to Asn-154, Gly-209 to Leu-217, Lys-248 to Val-255, Ile-259 to Arg-264, Arg-280 to Ala-287.
874556	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4836 as residues: Pro-73 to Ala-78, Ala-95 to Trp-106, Ala-108 to Gly-121, Lys-132 to Asn-142, Glu-163 to Arg-173, Ser-189 to Glu-194, Val-213 to Leu-229, Gln-244 to Asn-260.
874559	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4837 as residues: Thr-47 to Val-63, Arg-90 to Tyr-102, Val-179 to Pro-187, Asp-189 to Gln-200.
874560	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4838 as residues: Arg-222 to Gly-236, Ser-242 to Ile-250, Leu-254 to Ser-260, Glu-277 to Ser-283.
874561	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4839 as residues: Arg-29 to Gln-45.
874562	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4840 as residues: Pro-65 to Val-75, Pro-101 to Ala-131, Pro-143 to Cys-155, Ser-167 to Pro-179, Thr-205 to Cys-216, Arg-218 to His-236, Gln-241 to Asp-267.
874563	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4841 as residues: Ala-1 to Lys-8.
874564	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 4842 as residues: Pro-1 to Cys-8, Glu-48 to His-58, Ser-72 to Glu-78.
874567	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4844 as residues: Met-46 to Leu-55, Leu-93 to Lys-115, Leu-169 to Gly-187, Glu-213 to Gly-219, Lys-224 to Glu-229, Ser-294 to Cys-300, Gln-319 to Leu-328, Ser-345 to Asp-350, Pro-380 to Thr-385, Tyr-387 to Val-393.
874570	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4846 as residues: Pro-3 to Phe-14, Arg-16 to Trp-22, Ser-62 to Leu-74, Asp-86 to Ser-92, Gly-102 to Ser-111, Val-113 to Ser-118.
874571	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4847 as residues: Asp-49 to Asp-59, Asp-110 to Ile-115, Trp-137 to Ser-144.
874573	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4848 as residues: Pro-11 to Ala-35, Phe-47 to Glu-54, Glu-78 to Gly-83, Gln-94 to Ser-106, Ser-114 to Val-120.
874577	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4849 as residues: Leu-1 to Leu-6, Lys-26 to Asp-44, His-50 to Gly-58, Ala-102 to Thr-107.
874580	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4851 as residues: Arg-1 to Val-8, Lys-30 to Tyr-36, Tyr-92 to Gly-101, Lys-116 to Lys-125, Asp-140 to Gly-145, Pro-147 to Ser-167, Ser-170 to Ser-191, Ser-193 to Ile-199, Leu-203 to Arg-215, Ser-220 to Glu-231.
874581	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4852 as residues: Leu-1 to His-8, Pro-74 to Pro-84.
874590	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4855 as residues: Arg-1 to Asn-13, Pro-34 to Pro-41, Val-77 to Thr-84.
874592	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4856 as residues: Val-1 to His-27, Gly-33 to Trp-58, Pro-99 to Cys-105.
874594	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4857 as residues: Lys-18 to Gln-27, Leu-41 to Leu-46.
874601	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4859 as residues: Thr-6 to Gly-14, Gly-20 to Ala-26, Pro-31 to Met-37, Arg-49 to Ser-64, Pro-70 to His-79.
874605	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4861 as residues: Val-5 to Gly-11, Ser-43 to Lys-53, Glu-61 to Thr-68, Thr-99 to Ala-104, Tyr-106 to Asp-120, Asn-139 to Leu-148, Thr-169 to Thr-174, Asn-196 to Asn-202, Asn-223 to Glu-231, Glu-241 to Tyr-247, Ser-265 to Thr-270, Thr-277 to Cys-286, Leu-292 to Asp-298, Asn-347 to Thr-352, Thr-361 to Gly-366, Asn-373 to Thr-383.
874607	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4862 as residues: Pro-1 to Arg-10.
874608	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4863 as residues: Pro-3 to Arg-8, Gly-34 to Thr-53, Asp-60 to Ser-65, Phe-76 to Lys-81.
874609	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4864 as residues: Arg-6 to Arg-13, Phe-25 to Asn-32, Phe-47 to

	Glu-56, Lys-108 to Ala-122.
874610	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4865 as residues: Pro-31 to Trp-39, Pro-101 to Lys-110, Tyr-130 to Ala-137, Val-145 to Lys-154, Pro-174 to Gly-179, Phe-194 to Asn-202, Glu-224 to Gly-240, Thr-259 to Gln-264, Arg-287 to Ser-293, Cys-301 to Gln-307.
874611	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4866 as residues: Lys-1 to Gly-6, Asp-13 to Glu-27.
874615	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4869 as residues: Pro-13 to Cys-19.
874618	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4870 as residues: Arg-10 to Cys-15, Phe-30 to Pro-36, Arg-53 to Ser-59, Thr-66 to Ser-79.
874619	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4871 as residues: Ala-1 to Pro-7.
874621	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4873 as residues: Glu-4 to Gly-12, Thr-21 to Gln-27, Pro-40 to Ser-47, Pro-50 to Ser-61, Val-101 to Cys-107, Lys-138 to Gly-147, Gln-150 to Tyr-156, Lys-169 to Thr-174.
874622	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4874 as residues: Gln-31 to Lys-39, His-55 to Asp-60.
874623	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4875 as residues: Arg-7 to His-24, Pro-27 to Gly-33.
874624	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4876 as residues: Gln-12 to Ser-22.
874626	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4878 as residues: Leu-4 to Gly-11, Pro-60 to Gln-65.
874628	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4879 as residues: Pro-13 to Thr-20, His-24 to Gly-34, Glu-36 to His-42.
874631	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4881 as residues: Lys-14 to Glu-23, Glu-30 to Ser-43, Ser-45 to His-54, Thr-66 to Tyr-71, Pro-75 to Asp-80, Ile-98 to Thr-120, Glu-125 to Lys-133, Leu-146 to Ala-152, Ala-170 to Ile-176, Asp-180 to Cys-200.
874632	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4882 as residues: His-45 to Gly-50.
874635	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4883 as residues: Pro-1 to Pro-7, Leu-19 to Gly-26, Glu-72 to Asp-78, Lys-93 to Glu-103, Gln-152 to Gly-159, Gln-181 to Asp-190, Phe-232 to Val-237, Asn-282 to Thr-287, Pro-289 to Pro-295, His-341 to Asp-351, Cys-378 to Glu-383, Gln-448 to Gly-453, Ser-518 to His-524, Pro-536 to Glu-541.
874636	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4884 as residues: Glu-1 to Tyr-6, Pro-39 to Asp-46.
874639	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4886 as residues: Pro-7 to Gly-29, Ser-36 to Ala-41, Pro-43 to Asp-54, Pro-59 to Leu-64, Gln-70 to Ile-75, Glu-85 to Lys-94.
874642	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4888 as residues: His-8 to Gly-18, Gly-26 to Asp-38.

874644	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4889 as residues: Ser-4 to Leu-10, Thr-25 to Gly-35.
874645	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4890 as residues: Glu-69 to Thr-75.
874650	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4892 as residues: Glu-2 to Glu-14.
874651	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4893 as residues: Arg-1 to His-9.
874652	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4894 as residues: Ser-40 to Asn-45.
874653	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4895 as residues: Thr-1 to Ser-10, Arg-24 to Trp-51, Leu-62 to Gly-67, Pro-72 to Gly-81, Pro-98 to Gly-103.
874655	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4897 as residues: Glu-9 to Cys-14, Ser-38 to Ser-47, Tyr-52 to Lys-61, His-68 to Lys-78, Lys-93 to Gly-101.
874660	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4902 as residues: Leu-13 to Glu-18.
874665	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4904 as residues: Arg-9 to Arg-18, Leu-28 to Phe-36, Pro-49 to Arg-56, His-85 to Asn-103.
874667	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4905 as residues: Leu-47 to Thr-53, Ala-60 to Ser-66.
874670	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4906 as residues: Lys-1 to Leu-6, Pro-9 to Gly-17, Tyr-19 to Glu-25, Arg-30 to Leu-39.
874671	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4907 as residues: Val-5 to Ile-10, Glu-26 to Asp-35, Pro-70 to Pro-80, Tyr-90 to Glu-96.
874673	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4909 as residues: Ser-53 to Ser-63.
874675	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4910 as residues: Ser-33 to Ala-48.
874678	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4911 as residues: Lys-1 to Ser-12.
874679	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4912 as residues: Arg-1 to Glu-7, Leu-21 to Lys-32, His-56 to Cys-64.
874680	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4913 as residues: Glu-8 to Arg-14, Ile-49 to His-59, Leu-86 to Cys-94.
874683	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4915 as residues: Gly-22 to Thr-28, Glu-43 to Val-48, Ser-64 to Leu-71, Phe-106 to Val-111.
874688	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4917 as residues: Ser-10 to Glu-18, Leu-45 to Arg-54.
874689	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4918 as residues: Asn-13 to Gln-19, Lys-56 to Phe-61, Leu-83 to Ala-90.

874695	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4919 as residues: Leu-2 to Ser-12, Pro-125 to Asp-133.
874696	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4920 as residues: Asn-58 to Ser-66.
874699	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4922 as residues: Glu-1 to Ser-7.
874700	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4923 as residues: Gly-10 to Ile-16, Ile-50 to Ser-55.
874701	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4924 as residues: Asn-9 to Gly-14, Glu-17 to His-22.
874702	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4925 as residues: Pro-3 to Arg-20, Pro-24 to Arg-34.
874703	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4926 as residues: Ser-1 to Ser-7, His-35 to Gln-48, Ser-54 to Asn-59, Lys-69 to Met-74.
874708	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4929 as residues: Ala-145 to Gly-152, Val-177 to Gly-185.
874709	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4930 as residues: Ala-13 to Lys-22, Glu-31 to Arg-49, Ser-59 to Asn-65.
874710	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4931 as residues: Glu-1 to Arg-7, Leu-23 to Arg-39, Lys-46 to Asn-52, Pro-59 to Ser-67.
874711	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4932 as residues: Ile-37 to Ala-45, Glu-56 to Pro-62.
874713	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4933 as residues: His-47 to Gly-53, Ser-163 to Ser-169, Pro-276 to Lys-282.
874714	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4934 as residues: Ser-10 to Glu-18.
874715	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4935 as residues: Ser-13 to Leu-18.
874718	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4937 as residues: Gly-43 to His-54, Phe-126 to Cys-132, Pro-140 to Gln-150, Lys-159 to Ala-164, Ser-187 to Gly-193, Pro-212 to Gly-227.
874719	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4938 as residues: Gly-1 to Pro-7, Asp-45 to Asp-50, Lys-82 to Leu-89, Asp-97 to His-102, Thr-118 to Ser-126, Phe-128 to Asp-136, Gly-142 to His-148, Ser-212 to Gln-217, Arg-237 to Glu-244, Arg-269 to Glu-276, Asp-279 to Tyr-284.
874720	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4939 as residues: Glu-18 to Leu-28, Gly-49 to Gly-56, Ser-68 to Arg-74.
874724	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4941 as residues: Asp-7 to Glu-12.
874726	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4943 as residues: Ser-55 to Phe-60.
874732	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 4946 as residues: Val-10 to Gly-15, Ser-98 to Thr-105.
874737	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4947 as residues: Ala-36 to His-45.
874741	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4948 as residues: Gln-11 to His-19, Val-30 to Ile-36, Pro-63 to Ser-69, Gly-78 to Ser-83, Ser-92 to Tyr-97, Gln-155 to Glu-161, Gly-237 to Thr-244.
874744	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4949 as residues: Glu-1 to Phe-12, Ser-47 to Gly-52.
874746	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4951 as residues: Asn-34 to Ser-39.
874749	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4954 as residues: Asp-1 to Gly-17.
874750	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4955 as residues: Gly-4 to Lys-9.
874751	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4956 as residues: His-42 to Glu-47.
874752	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4957 as residues: Ile-11 to Gly-17, Gln-26 to Val-32, Gln-41 to Asp-52.
874756	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4961 as residues: Ser-1 to His-6.
874757	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4962 as residues: Thr-33 to Phe-38.
874760	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4965 as residues: Gly-1 to Ser-8, Ser-23 to Asn-37.
874763	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4966 as residues: Trp-33 to Gln-40, Cys-64 to Ala-70, Ser-148 to Tyr-160.
874764	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4967 as residues: Lys-1 to Gln-19.
874765	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4968 as residues: Thr-50 to Gln-59, Ser-62 to Lys-68.
874766	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4969 as residues: Pro-1 to Gly-21, Leu-37 to Pro-42.
874767	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4970 as residues: Lys-30 to Ala-41, Pro-50 to Asn-56, Glu-141 to Pro-151, Ser-175 to Ser-189.
874769	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4972 as residues: Lys-13 to Glu-22, Glu-76 to Trp-89, Thr-112 to Gly-120, Arg-141 to Gly-146, Thr-178 to Val-185, Val-212 to Arg-223, Pro-225 to Gln-231, Asn-238 to Ala-244, Pro-281 to Glu-287.
874772	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4973 as residues: Gln-44 to Arg-55, Pro-61 to Ala-66.
874774	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4975 as residues: Pro-19 to Pro-34, Leu-46 to Phe-62.
874776	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4977 as residues: Pro-7 to Cys-15, Arg-31 to Glu-42, Ala-47 to Ser-58.

874778	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4978 as residues: Arg-1 to Gly-6.
874779	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4979 as residues: Ser-23 to Glu-31, Asp-46 to Pro-53.
874783	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4982 as residues: Gly-1 to Asp-12, Gly-29 to Gly-37, Gly-73 to Lys-99.
874784	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4983 as residues: Pro-12 to Gly-18.
874785	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4984 as residues: Lys-24 to Lys-36.
874787	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4986 as residues: Thr-5 to Gly-11, Arg-63 to Lys-73, Gln-92 to Glu-98, Ala-106 to Gly-112.
874788	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4987 as residues: Pro-53 to Asn-59.
874790	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4988 as residues: Ser-4 to Thr-9, Gly-17 to Pro-22, Gly-32 to Pro-37.
874791	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4989 as residues: Gly-1 to Ser-6, Pro-20 to Arg-27.
874793	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4990 as residues: Pro-6 to Ala-12, Pro-18 to Thr-28, Pro-31 to Arg-37, Pro-53 to Ile-60.
874795	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4991 as residues: Pro-58 to Leu-72.
874796	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4992 as residues: Thr-4 to Arg-11, Pro-30 to Gly-43, Glu-48 to Glu-56, Met-86 to Ser-92.
874797	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4993 as residues: Gly-52 to Thr-60, Arg-94 to Glu-100.
874800	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4994 as residues: Thr-14 to Tyr-25.
874802	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4996 as residues: Lys-17 to Leu-23.
874803	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 4997 as residues: Glu-7 to Arg-15, Pro-23 to Arg-36, Pro-79 to Ser-96, Ser-119 to Gly-125.
874813	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5004 as residues: Arg-18 to Arg-23, Glu-35 to Asp-50, Ser-67 to Gln-74, Asp-78 to Ser-93.
874815	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5005 as residues: His-38 to Val-46, Ser-97 to Ser-103, Ser-106 to Leu-111, His-191 to Gly-196, Leu-223 to Gly-239, Pro-245 to Ala-250.
874818	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5007 as residues: Tyr-46 to Gly-51.
874819	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5008 as residues: Pro-33 to Gly-40.

874820	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5009 as residues: Ile-18 to Gly-30, Leu-33 to Asn-48.
874821	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5010 as residues: Thr-8 to Ser-16.
874822	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5011 as residues: Asn-9 to Phe-14, Glu-63 to Thr-68.
874827	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5012 as residues: Pro-19 to Ser-24, Val-28 to Glu-34.
874828	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5013 as residues: Lys-17 to Gly-28, Thr-62 to Thr-69, Val-88 to Arg-101, Gln-106 to Pro-112, Arg-127 to Cys-132, Gly-158 to Leu-163.
874830	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5015 as residues: Arg-53 to Thr-58.
874835	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5017 as residues: Gly-1 to Ser-11, Ser-16 to Ala-26, Thr-28 to Ser-36, Gln-53 to Trp-59, Lys-72 to Thr-100, Asp-137 to Cys-143.
874836	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5018 as residues: Leu-12 to Asn-17, Phe-25 to Cys-33, Gln-50 to Ser-60, Glu-63 to Pro-68, Pro-83 to Pro-95.
874837	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5019 as residues: Val-35 to Thr-41.
874844	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5021 as residues: Pro-19 to Phe-26, Pro-29 to Gly-34, Pro-50 to Ser-55, Gly-67 to Lys-73.
874845	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5022 as residues: Asn-1 to Leu-6, Phe-14 to Gly-20.
874847	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5023 as residues: Lys-16 to Thr-22, Glu-36 to Arg-42.
874851	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5025 as residues: Asp-58 to Gly-65, Asp-132 to Cys-147, Pro-149 to Pro-157, Pro-218 to Leu-224.
874852	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5026 as residues: Ala-16 to Trp-21.
874854	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5027 as residues: Gly-2 to Glu-8, Met-21 to Trp-26.
874856	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5029 as residues: His-15 to Asp-20, Lys-27 to Asn-33.
874857	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5030 as residues: Lys-35 to Arg-44, Lys-53 to Val-64, Glu-76 to Val-82, Leu-109 to Lys-118.
874864	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5033 as residues: Leu-40 to Cys-51, Glu-80 to Thr-89, Pro-124 to Ser-132, Cys-153 to Cys-160, Glu-203 to Asp-209, Ala-226 to Arg-241.
874865	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5034 as residues: His-1 to Lys-7.
874871	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5038 as residues: Gly-1 to Ser-10, Ser-13 to Ile-19, Arg-30 to Leu-37, Pro-39 to Asp-48, Pro-140 to Cys-148, Gln-154 to Cys-162,

	Pro-164 to Ser-170.
874873	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5039 as residues: Cys-6 to Ala-12, Pro-14 to Pro-22, Arg-48 to Arg-53, Ile-75 to Thr-85, Glu-97 to Gln-102, Arg-130 to Arg-135, Ser-147 to Val-152, Lys-175 to Thr-185, Phe-189 to Met-194, Gly-213 to Ser-220, Glu-262 to Leu-268.
874879	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5043 as residues: Glu-1 to Gly-15, His-27 to Thr-39, Gly-43 to Ile-49.
874880	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5044 as residues: Pro-62 to Val-70, Lys-103 to Ile-108.
874881	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5045 as residues: Asp-1 to Gly-9.
874885	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5046 as residues: Lys-49 to Gln-55, Glu-83 to Lys-90, Gly-158 to Gly-164, Lys-185 to Gly-192.
874886	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5047 as residues: Pro-10 to Gly-16, His-128 to Gly-134, His-154 to Asp-160, Leu-182 to Leu-187.
874888	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5048 as residues: Pro-15 to Met-27, Thr-106 to His-118, Arg-128 to Arg-139, Val-248 to Arg-254.
874889	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5049 as residues: Pro-7 to Ile-14, Ser-17 to Gln-22.
874890	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5050 as residues: Gly-25 to Ser-31, Trp-34 to Cys-41.
874891	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5051 as residues: Glu-26 to Ser-33, Thr-82 to Phe-90, Met-107 to Asn-114, Thr-125 to Glu-131, His-175 to Asp-180.
874892	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5052 as residues: Arg-1 to Lys-29, Ile-36 to Lys-47, Lys-52 to Gly-83, Pro-89 to Asp-111.
874893	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5053 as residues: Arg-17 to Ile-22.
874896	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5056 as residues: Arg-21 to Lys-26, Pro-37 to Cys-45.
874897	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5057 as residues: Asn-13 to Ala-27, Pro-33 to Lys-42, Asp-61 to Ser-74, Leu-85 to Lys-102.
874898	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5058 as residues: Pro-1 to Leu-9.
874900	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5060 as residues: Lys-3 to Asp-12, Gln-36 to Tyr-47.
874903	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5062 as residues: Pro-9 to Trp-21, Lys-54 to Gln-61, Lys-75 to Phe-87, Glu-97 to Pro-104, Leu-200 to Val-205, Pro-208 to Gly-218, Thr-263 to Leu-278.
874905	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5064 as residues: Tyr-94 to Ile-99.

874906	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5065 as residues: Glu-4 to Pro-11.
874907	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5066 as residues: Gln-1 to Lys-10, Thr-17 to Asn-32, Lys-54 to Lys-65.
874908	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5067 as residues: Ile-1 to Leu-6, Leu-17 to Ala-23, Ile-27 to Thr-33, Asn-40 to Leu-45.
874909	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5068 as residues: Pro-18 to Ser-28, Ser-55 to Thr-64, Asn-90 to Lys-95, Asn-128 to Ile-159, Pro-171 to Gly-178, Pro-186 to Lys-192.
874917	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5071 as residues: Arg-37 to Thr-42, Pro-50 to Gly-68, Pro-70 to Leu-78, Lys-84 to Lys-89, Asn-95 to Val-105, Asp-117 to Lys-126.
874924	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5072 as residues: Leu-8 to Asn-18, Gly-31 to Ala-39.
874925	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5073 as residues: Ser-3 to Arg-9, Gln-24 to Gly-29.
874926	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5074 as residues: Gly-1 to Pro-22.
874928	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5076 as residues: Pro-15 to Gly-23, Ser-27 to Lys-33, Glu-41 to Lys-46, Pro-48 to Asp-55.
874937	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5084 as residues: Ser-15 to Ser-20.
874938	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5085 as residues: Ser-12 to Asp-18, His-43 to Gly-51.
874939	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5086 as residues: Ser-12 to Gln-21.
874946	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5088 as residues: Ser-1 to Lys-6, Lys-16 to Glu-24, Asn-34 to Lys-47.
874957	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5090 as residues: Ala-12 to Asn-20, Pro-23 to Asn-28, Phe-47 to Val-52, Lys-88 to Gly-93, Tyr-113 to Asn-123, Val-211 to Lys-216.
874958	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5091 as residues: Cys-2 to Leu-9, Pro-37 to Gly-42, Ala-50 to Gly-71, Asn-83 to Ala-94, Leu-109 to Leu-115, Phe-156 to Gly-164, Lys-234 to His-249, Glu-267 to Gly-281, Asn-335 to Asp-356, Glu-378 to Ser-385, Gln-402 to Gly-411, Trp-469 to Lys-477, Glu-481 to Gly-486.
874962	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5092 as residues: Asp-1 to Ser-11, Ser-29 to Ser-37, Gln-100 to Arg-112, Leu-123 to Trp-148, Lys-237 to Glu-242, Ala-261 to Asp-266, Asp-279 to Ser-300, Thr-374 to Glu-384, Thr-426 to Thr-432, Glu-443 to Val-449.
874965	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5093 as residues: Asn-13 to His-23, Ser-43 to Gln-56, Val-60 to Glu-65, Pro-67 to Gly-103, Asn-105 to Asp-110.
874970	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5094 as residues: Pro-3 to Lys-17, Thr-37 to Gly-47.
874972	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5095 as residues: Thr-124 to Thr-129, Gly-136 to Phe-142, Asp-164 to His-171, Asp-180 to Tyr-194.
874973	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5096 as residues: Trp-48 to Arg-56, Pro-68 to Ala-74.
874974	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5097 as residues: Arg-1 to Gly-6, Pro-14 to Ala-26, Ala-42 to Lys-47, Pro-66 to Val-82.
874975	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5098 as residues: Ala-18 to Glu-24, Gln-26 to Gln-31.
874976	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5099 as residues: Lys-13 to Ser-19, Pro-33 to Gly-41.
874981	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5104 as residues: Arg-11 to Arg-20.
874983	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5105 as residues: Lys-1 to Thr-9, Ala-43 to Asp-49, Asp-66 to Arg-72, Gln-80 to Asp-87, Arg-97 to Lys-104, Ser-111 to Glu-117, Phe-150 to Phe-155, Phe-165 to Ala-177, Tyr-219 to Asn-224, Gln-235 to Thr-242, Tyr-244 to Thr-251, Arg-267 to Thr-276, Thr-299 to Ile-306, Pro-318 to Glu-348, Gly-352 to Leu-370.
874984	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5106 as residues: Thr-40 to Glu-46, Lys-51 to Asn-63.
874991	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5110 as residues: Ser-34 to Gln-40, Met-43 to Asp-70.
874993	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5112 as residues: Thr-6 to Gly-12.
874994	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5113 as residues: Val-3 to Lys-9.
874995	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5114 as residues: Arg-1 to Glu-6, Pro-21 to Thr-27, Lys-41 to Thr-48, Gly-202 to Ile-208, Glu-216 to Lys-221, Glu-241 to Lys-247, Glu-261 to Leu-267, Pro-269 to Glu-277, Gln-319 to Lys-326.
874996	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5115 as residues: Glu-1 to Gly-12, Tyr-15 to Pro-22, Asp-36 to Thr-48.
874997	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5116 as residues: Ile-3 to Lys-9, Ser-31 to Trp-40.
874999	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5118 as residues: Lys-11 to Gln-16.
875002	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5120 as residues: Lys-6 to His-16.
875004	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5122 as residues: Pro-5 to Val-14, Asn-24 to Tyr-35, Ser-70 to Val-77, Ser-81 to Asp-99, Ser-121 to Phe-127, Thr-137 to Lys-146, Lys-158 to Ser-164, Phe-185 to Gly-192, Asp-212 to Gln-221.
875005	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5123 as residues: Glu-1 to Ser-14.
875008	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5125 as residues: Arg-1 to Glu-6, Val-14 to Asp-21.
875009	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5126 as residues: Val-30 to Arg-37, Glu-57 to Thr-63, Leu-66 to Arg-72.
875017	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5128 as residues: Ser-28 to Leu-34, Glu-55 to Gln-62.
875024	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5132 as residues: Tyr-19 to Tyr-24.
875027	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5134 as residues: Thr-46 to Gly-51.
875029	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5135 as residues: Ser-23 to Gly-35.
875034	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5137 as residues: Ser-42 to Trp-53, Glu-71 to Ala-78.
875036	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5139 as residues: Ile-20 to Gly-40.
875037	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5140 as residues: Trp-23 to Gly-28.
875044	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5143 as residues: Gln-23 to Cys-42, Arg-66 to Asn-73.
875045	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5144 as residues: Glu-10 to Leu-25, Lys-27 to Cys-57.
875046	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5145 as residues: Phe-14 to Phe-19.
875049	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5148 as residues: Thr-5 to Lys-12.
875053	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5149 as residues: Ser-16 to Phe-31.
875056	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5151 as residues: Pro-14 to Trp-19.
875058	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5152 as residues: Pro-3 to Gly-20, Gly-24 to Thr-29, Arg-46 to Asn-57, Leu-72 to Phe-78, Glu-81 to Gln-86, Ile-103 to Gln-117, Leu-127 to Ile-142, Asn-144 to Ser-151, Arg-156 to His-166.
875060	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5154 as residues: Pro-14 to Ser-20, Pro-41 to Arg-46, Asp-70 to His-78.
875062	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5156 as residues: Cys-10 to Tyr-16.
875063	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5157 as residues: Ala-18 to Pro-28.
875066	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5158 as residues: Glu-144 to Leu-152, Glu-170 to Asp-179, Gln-225 to Asp-239, Gly-259 to Ala-265.
875067	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5159 as residues: Arg-7 to Pro-16, Pro-37 to Ile-44, Thr-50 to Tyr-72, Pro-88 to Phe-94, Ala-107 to Pro-115.
875068	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5160 as residues: Thr-12 to Trp-23.

875070	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5161 as residues: Asp-17 to Asp-27, Pro-34 to Tyr-40, Glu-52 to Glu-57.
875080	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5163 as residues: Val-30 to Met-37, Glu-39 to Gly-45.
875088	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5165 as residues: Thr-1 to Tyr-8, Gln-27 to Glu-33, Gly-42 to Ser-49, Arg-56 to Lys-81, Cys-97 to Lys-104, His-114 to Ser-133, Gln-139 to Lys-146, Arg-165 to Glu-173, Asp-180 to Lys-188, Arg-196 to Glu-201.
875092	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5166 as residues: Thr-9 to Asp-17, Leu-70 to Lys-95, Asp-115 to Leu-124.
875093	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5167 as residues: Gly-2 to Gly-7, Glu-9 to Gln-16, Cys-24 to Gly-30, Ala-35 to Ala-45, Ala-55 to Ala-60, Cys-79 to Leu-90, Asp-95 to Asp-103.
875094	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5168 as residues: His-80 to Glu-87.
875100	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5170 as residues: Thr-18 to Glu-23.
875102	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5172 as residues: Ser-10 to Gly-16, Pro-24 to Arg-35, Lys-39 to Ala-51.
875103	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5173 as residues: Arg-35 to Ala-41.
875105	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5174 as residues: Phe-70 to His-75.
875106	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5175 as residues: His-45 to Gly-55.
875113	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5177 as residues: Thr-27 to Thr-53.
875114	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5178 as residues: Gly-2 to Arg-7.
875118	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5180 as residues: Pro-21 to Leu-26, Val-62 to Phe-70, Pro-81 to Asp-89.
875121	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5181 as residues: Phe-19 to Leu-36, Glu-38 to Pro-45.
875123	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5182 as residues: Ser-44 to Pro-49, Arg-54 to Gly-64, Leu-94 to Asp-100, Ser-107 to Gly-113, Lys-143 to Tyr-150.
875126	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5185 as residues: His-22 to Ser-27, Cys-34 to Ser-40.
875133	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5187 as residues: His-1 to Gly-9, Gly-19 to Pro-28, Pro-36 to Tyr-42, Gly-44 to Gly-65.
875134	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5188 as residues: Gly-10 to Lys-19, Met-21 to Pro-32.

875143	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5190 as residues: Arg-17 to Ser-23.
875144	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5191 as residues: Asn-14 to Thr-19.
875151	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5193 as residues: Arg-10 to Trp-15, Lys-90 to Ile-95, Asn-103 to Ile-109, Asn-131 to Leu-137, Asn-153 to Arg-163.
875160	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5197 as residues: Val-20 to Asn-27.
875165	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5198 as residues: Thr-5 to Gly-13, Cys-24 to Lys-33.
875177	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5200 as residues: Ala-37 to Asp-44.
875182	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5202 as residues: Pro-25 to Ser-33, Gln-113 to Ser-122, Trp-147 to Tyr-158, Ser-187 to Ala-198, His-201 to Gly-209, Pro-223 to Gly-228, Glu-233 to Gly-238.
875194	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5205 as residues: Ser-16 to Ser-21, Gln-34 to Thr-41.
875200	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5208 as residues: Gln-12 to Cys-19.
875203	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5209 as residues: Arg-1 to Trp-6, Pro-9 to Leu-14.
875205	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5210 as residues: Leu-22 to Ala-27, Ser-31 to Ser-36, Pro-77 to Cys-83.
875206	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5211 as residues: Pro-69 to Pro-75.
875208	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5212 as residues: Asn-25 to Gly-30, Asn-34 to Asn-39.
875209	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5213 as residues: Asn-11 to Ser-18, His-20 to Arg-26, Val-31 to Trp-41.
875210	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5214 as residues: Leu-37 to Thr-52.
875214	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5216 as residues: Ala-7 to Leu-33.
875215	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5217 as residues: Gln-18 to Leu-29, Asp-52 to Ile-57.
875223	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5218 as residues: Thr-2 to Gln-7.
875226	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5219 as residues: Arg-1 to Gln-7, Lys-21 to Gln-31, Leu-41 to Ser-84, Asp-87 to Arg-98, Leu-102 to Lys-115, Leu-129 to Lys-139.
875228	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5220 as residues: Ser-1 to His-10, Pro-84 to Arg-98, His-108 to Asn-113.
875240	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5224 as residues: Ser-31 to Arg-43.

875246	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5225 as residues: Phe-29 to Leu-37.
875261	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5228 as residues: Ser-10 to Asp-24.
875270	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5230 as residues: Ser-1 to Ser-11, Gln-64 to Gln-69, Arg-117 to Pro-128, Pro-135 to Asp-140, Gly-147 to Arg-160, Lys-168 to Val-173, Asn-181 to Lys-191, Glu-200 to Gly-205, Gly-215 to Lys-224.
875271	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5231 as residues: Phe-12 to Lys-17.
875275	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5232 as residues: Pro-9 to Gly-20.
875277	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5234 as residues: Arg-6 to Ser-18.
875278	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5235 as residues: Thr-45 to Lys-50.
875282	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5239 as residues: Thr-14 to Lys-31.
875287	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5240 as residues: Lys-15 to Trp-31, Val-44 to Cys-51.
875288	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5241 as residues: Pro-28 to Gly-39, Ser-42 to Ser-50, Arg-61 to Arg-70, Gln-75 to Gly-86.
875296	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5243 as residues: Glu-26 to Ala-32, Thr-81 to Ser-90.
875303	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5244 as residues: Glu-2 to Met-9, Asp-17 to Asn-22, Leu-27 to Val-35.
875306	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5247 as residues: Thr-17 to Phe-22.
875307	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5248 as residues: Pro-1 to Tyr-22.
875308	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5249 as residues: Pro-36 to Pro-41.
875309	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5250 as residues: Pro-1 to Ala-9, Gly-42 to Gln-51.
875312	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5253 as residues: Leu-7 to Tyr-14, Glu-41 to Leu-49.
875313	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5254 as residues: Gln-23 to Leu-34, Asp-45 to Arg-60.
875316	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5255 as residues: Asn-25 to Tyr-31.
875319	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5256 as residues: Asp-10 to Lys-16, Lys-35 to Asn-41, Tyr-55 to Leu-62, Glu-145 to Thr-153, Ser-169 to Lys-175, Thr-184 to His-192, Gly-224 to Trp-234, Ala-251 to Leu-256, Glu-276 to Asp-281.
875336	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5261 as residues: Tyr-3 to Leu-10.
875338	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5262 as residues: Pro-9 to Ile-14, Glu-81 to Gln-90.
875346	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5264 as residues: Gly-29 to Arg-44.
875347	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5265 as residues: Ile-3 to Ser-14, Ala-32 to Ser-44, Ser-60 to Leu-67.
875360	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5268 as residues: Pro-14 to Leu-19, Ile-37 to Ala-46, Ser-58 to Asn-65, Pro-71 to Gly-77.
875364	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5269 as residues: Val-38 to Phe-47, Asn-64 to Phe-69.
875367	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5271 as residues: Gly-14 to Leu-21, Asn-31 to Met-37.
875371	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5272 as residues: Pro-12 to Glu-23, Lys-29 to Pro-34, Pro-54 to Leu-66.
875372	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5273 as residues: Ala-7 to Arg-12.
875373	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5274 as residues: Tyr-54 to Cys-61, Asn-73 to Pro-78, Pro-84 to Asn-93, Gln-99 to Asp-105.
875378	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5276 as residues: Leu-42 to Lys-53, Cys-100 to Asn-110, Pro-137 to Gly-144, Pro-190 to Ala-205.
875379	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5277 as residues: Asp-5 to Ala-10, Ala-19 to Ile-25, Val-39 to Ser-44, Gln-74 to Cys-90, Leu-94 to Glu-99, Leu-108 to Phe-116.
875381	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5279 as residues: Cys-46 to Leu-51.
875382	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5280 as residues: Pro-11 to Thr-16, Pro-23 to Gly-33, Ala-51 to Arg-61.
875384	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5281 as residues: Gln-15 to Gly-28, Asp-83 to Tyr-92.
875385	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5282 as residues: Leu-3 to Asp-8, Gln-30 to His-36.
875388	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5283 as residues: Thr-2 to Ser-9, Pro-23 to Arg-30.
875391	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5284 as residues: Lys-1 to Arg-10, Lys-53 to Tyr-62.
875397	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5285 as residues: Arg-7 to Gly-29, Arg-37 to Glu-47, Asp-78 to Thr-83, Gly-173 to Val-180, Glu-188 to Glu-202, Pro-208 to Thr-216, Thr-227 to Glu-242, Arg-250 to Gly-281, Lys-288 to Thr-296, Glu-301 to Arg-311, Ala-313 to Lys-318, Lys-357 to Thr-367, Pro-376 to Ser-387, Pro-416 to Lys-428, Pro-486 to Thr-491, Ser-497 to Arg-516, Lys-522 to Lys-532, Arg-537 to Met-557.
875402	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5286 as residues: Asn-1 to Thr-15.

875406	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5288 as residues: Pro-5 to Ala-19.
875410	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5289 as residues: Ala-4 to Pro-14, Pro-23 to Thr-28, Thr-40 to Gln-45, Tyr-60 to Gln-69, Pro-88 to Leu-93, Glu-108 to Ala-113, Val-119 to Gly-131, Arg-146 to Arg-155, Ala-164 to Lys-171, Thr-190 to Met-201.
875415	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5290 as residues: Arg-18 to Trp-23, Gly-25 to Gly-32, Lys-34 to Arg-42, Gly-52 to Thr-59, Ala-86 to Lys-92.
875416	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5291 as residues: Lys-9 to Gly-37.
875417	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5292 as residues: Glu-2 to Cys-14.
875419	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5294 as residues: Thr-2 to Tyr-11.
875423	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5295 as residues: Lys-13 to Ile-24, Phe-28 to Val-35.
875428	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5298 as residues: Gly-2 to Thr-7, Gly-20 to Thr-29, Asn-69 to Arg-77.
875429	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5299 as residues: Phe-4 to Pro-9, Pro-13 to Gln-18.
875433	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5300 as residues: Lys-78 to Met-83.
875434	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5301 as residues: Thr-34 to Glu-39.
875437	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5302 as residues: Glu-1 to Gln-7.
875440	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5303 as residues: Arg-11 to Met-17, Ile-66 to Trp-71, Asp-91 to Leu-97, Ala-102 to Lys-111, Trp-113 to Glu-120, Pro-132 to Asn-141, Thr-144 to Glu-153, Glu-159 to Glu-172, Pro-177 to Lys-192.
875441	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5304 as residues: Cys-28 to Cys-34.
875442	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5305 as residues: Pro-18 to Lys-23.
875446	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5306 as residues: Pro-8 to Phe-18.
875452	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5307 as residues: Ala-6 to Cys-17.
875458	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5308 as residues: Glu-40 to Glu-46, Arg-51 to Ser-67.
875462	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5311 as residues: Ser-2 to Ser-14, Arg-75 to Asn-85.
875468	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5313 as residues: Thr-35 to Thr-49.
875474	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5314 as residues: Asp-1 to Asp-13, Arg-40 to Arg-56, Ser-72 to

	Asp-84, Ala-88 to Arg-96, Lys-115 to Phe-121, Asp-133 to Lys-139, Leu-203 to Leu-210, Asp-264 to Arg-269.
875475	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5315 as residues: Pro-12 to Gly-19.
875479	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5318 as residues: His-32 to Lys-40.
875481	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5319 as residues: Arg-22 to Ser-39, Val-42 to Thr-54, Gln-61 to His-69, Glu-83 to Gly-109, Pro-111 to Gly-118.
875490	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5322 as residues: Cys-75 to Thr-81.
875491	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5323 as residues: Gln-8 to His-15, Ser-32 to Gln-43, Leu-51 to Glu-70.
875499	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5329 as residues: Asn-36 to Leu-55.
875500	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5330 as residues: Thr-31 to Arg-39.
875501	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5331 as residues: Asp-52 to Asn-59.
875508	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5334 as residues: Pro-1 to Ile-18, Asp-28 to Lys-33, Leu-50 to Gln-55, Glu-85 to Ala-94, Leu-121 to Ser-130, Lys-143 to Gly-150, Leu-173 to Asp-179, Lys-183 to Asp-192, Lys-196 to Glu-202, Asn-219 to Asn-227, Glu-235 to Glu-248.
875512	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5335 as residues: Asp-10 to Trp-16, Glu-33 to Asn-43.
875514	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5336 as residues: Asp-11 to Tyr-32, Gln-43 to Thr-58, His-70 to Arg-79, Ser-101 to Ala-108, Met-110 to Ser-124.
875515	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5337 as residues: Met-1 to Arg-8, Met-10 to His-17.
875516	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5338 as residues: Leu-2 to Ser-8, Gln-41 to Gly-46, Asp-70 to Gln-80, Pro-82 to Gly-97.
875518	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5340 as residues: Arg-1 to Trp-11, Ser-28 to Leu-42, Gly-65 to Gly-70, Ala-72 to Gln-77, Gly-89 to Lys-98, Asp-126 to Thr-136, Gln-218 to Gly-226, Lys-261 to Gly-282.
875520	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5341 as residues: Arg-5 to Ser-18, Arg-36 to Gly-42, Gln-45 to Gly-56, Val-69 to Arg-75.
875525	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5343 as residues: Arg-6 to Thr-22, Arg-31 to His-38.
875527	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5344 as residues: Gly-24 to Leu-31, Ser-64 to Val-70, Arg-93 to Trp-100.
875528	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5345 as residues: Thr-6 to Ile-13.

875534	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5347 as residues: Arg-1 to Thr-14, Arg-28 to Asp-34, Gln-51 to Ser-60, Lys-69 to Gly-78, Val-110 to Val-115, Asn-135 to Glu-141, Asn-167 to Pro-179, Lys-203 to Lys-214, Gly-267 to Pro-279.
875538	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5348 as residues: Thr-1 to Arg-6.
875544	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5351 as residues: Gln-1 to Asn-8.
875545	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5352 as residues: Cys-2 to Gly-16, Glu-35 to Leu-40, Pro-61 to Gln-66.
875547	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5354 as residues: Leu-37 to His-43.
875548	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5355 as residues: Val-15 to Asp-21, Cys-29 to Ser-36.
875550	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5356 as residues: Arg-81 to Gln-93, Leu-103 to Val-116.
875551	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5357 as residues: Glu-11 to Lys-22, Glu-36 to Gly-41.
875553	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5359 as residues: Arg-6 to Lys-11, Phe-16 to Ile-21, Thr-48 to Leu-56, Pro-64 to Arg-70.
875554	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5360 as residues: Tyr-2 to Ser-10, Asn-69 to Leu-80.
875559	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5363 as residues: Pro-123 to Asn-130.
875563	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5365 as residues: Pro-35 to Gly-62.
875565	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5367 as residues: Pro-2 to Asp-7, Gln-13 to Gln-29, Pro-35 to Trp-41.
875570	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5369 as residues: Leu-1 to Ser-6, Ser-45 to Lys-56, Asn-66 to Lys-78.
875574	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5372 as residues: Pro-10 to Gln-15, Cys-25 to Ile-30, Ser-42 to Lys-47.
875583	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5374 as residues: Lys-6 to Lys-37, Arg-43 to Leu-49, Met-53 to Val-59.
875590	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5380 as residues: Cys-128 to Pro-134.
875594	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5381 as residues: Gly-40 to Ser-45.
875596	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5382 as residues: Gly-1 to Gly-10.
875597	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5383 as residues: His-3 to Ser-9.
875604	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5386 as residues: Lys-7 to Ser-20, Arg-67 to Ser-74.
875605	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5387 as residues: Gly-17 to Ser-24, Met-42 to Arg-48.
875606	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5388 as residues: Tyr-1 to Gly-13, Glu-32 to Asp-43, Ser-55 to Ile-62, Pro-119 to Asn-131.
875609	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5390 as residues: Thr-12 to Ser-20, Leu-60 to Ala-66.
875610	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5391 as residues: Cys-41 to Ser-47.
875613	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5394 as residues: Leu-12 to Lys-18.
875625	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5395 as residues: Asp-8 to Leu-25, Arg-94 to Ala-102, Glu-133 to Ala-138.
875628	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5396 as residues: Ser-17 to Gly-23.
875629	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5397 as residues: Glu-1 to Glu-11, Arg-21 to Ser-27.
875631	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5399 as residues: Val-37 to Asn-43, Glu-62 to Pro-69, Gln-118 to Tyr-131, Ser-144 to Trp-150.
875633	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5401 as residues: Asn-11 to Arg-16.
875634	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5402 as residues: Ile-1 to Gly-10, Asp-24 to Arg-29.
875635	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5403 as residues: Phe-1 to Ile-8, Thr-21 to Leu-38, Glu-55 to Lys-70, Lys-76 to Leu-82, Lys-84 to Glu-89, Ile-93 to Ser-98.
875636	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5404 as residues: Pro-30 to Asp-35.
875638	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5405 as residues: Asp-1 to Gly-7, Arg-13 to Arg-18, Arg-48 to Ser-54.
875640	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5407 as residues: Thr-36 to Cys-47.
875642	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5409 as residues: Arg-2 to Thr-8, Thr-46 to His-51.
875646	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5410 as residues: Ala-4 to Arg-10, Cys-22 to Lys-27.
875650	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5411 as residues: Glu-29 to Lys-34, Leu-151 to Tyr-156, Glu-162 to Arg-170.
875651	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5412 as residues: Leu-119 to Gln-125, Arg-128 to Ser-139, Gln-145 to Pro-158.
875653	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5413 as residues: Pro-1 to Gln-14.
875654	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5414 as residues: Arg-34 to Gly-66.
875658	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5415 as residues: His-19 to Tyr-30, Ala-53 to Ala-59, Ala-90 to Pro-101, Lys-132 to Lys-139, Ala-152 to Arg-158, Phe-168 to Leu-175, Arg-178 to Lys-186.
875661	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5416 as residues: Tyr-2 to Ser-8, Thr-15 to Ala-25.
875662	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5417 as residues: Gly-5 to Cys-12, Phe-40 to Thr-47.
875663	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5418 as residues: Thr-4 to Ser-12.
875665	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5419 as residues: Lys-2 to Lys-7.
875669	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5420 as residues: Lys-1 to Gly-11.
875677	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5423 as residues: Gly-1 to His-7, Val-10 to Phe-17, Asp-62 to Arg-67.
875678	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5424 as residues: Ile-2 to Ile-9, Asn-76 to Gln-82.
875681	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5426 as residues: Glu-1 to Asn-12, Pro-20 to Ala-26, Thr-42 to Ser-50.
875683	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5428 as residues: Val-60 to Pro-69.
875687	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5429 as residues: Asp-18 to Phe-24.
875688	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5430 as residues: Glu-8 to Glu-13.
875689	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5431 as residues: Lys-24 to Lys-30.
875690	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5432 as residues: Gly-3 to Leu-20, Trp-38 to Arg-44, Lys-58 to Lys-64.
875698	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5434 as residues: Tyr-43 to Lys-52, Glu-60 to Arg-66, Gln-84 to Cys-89, Gln-106 to Lys-117, Thr-140 to Asp-168, Gln-170 to Arg-177.
875704	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5438 as residues: Gly-24 to Thr-30, Ser-103 to Gly-109.
875717	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5441 as residues: Cys-12 to Cys-34, Pro-36 to Thr-45, Arg-75 to Asn-85.
875719	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5442 as residues: Asn-1 to Tyr-7.
875722	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5443 as residues: Leu-2 to Phe-7.
875724	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5444 as residues: Asn-86 to Ser-91.

875725	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5445 as residues: Thr-9 to Thr-17, Arg-33 to Val-41.
875727	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5446 as residues: Thr-16 to Pro-23, Pro-39 to Trp-48, Arg-50 to Lys-55, Gly-73 to Gly-79.
875734	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5451 as residues: Ser-12 to Thr-18, Pro-20 to Pro-25.
875736	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5452 as residues: Phe-10 to Arg-15, Ile-48 to Thr-53, Ser-64 to Asn-69.
875737	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5453 as residues: Leu-1 to Cys-6, Ala-74 to Gly-87, Gln-106 to Gly-111.
875738	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5454 as residues: Glu-11 to Asp-19, Gly-40 to Thr-47, Pro-66 to Arg-71.
875739	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5455 as residues: Gly-45 to Asp-50.
875740	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5456 as residues: Glu-1 to Gln-22.
875746	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5457 as residues: Leu-55 to Gln-64.
875751	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5459 as residues: Phe-21 to Leu-26, Gly-81 to His-87.
875752	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5460 as residues: Ser-11 to Asn-16, Trp-33 to Arg-49.
875753	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5461 as residues: Glu-1 to Ile-17, Leu-54 to Asn-59.
875754	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5462 as residues: Arg-53 to Val-58.
875760	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5463 as residues: Phe-45 to Asn-51.
875765	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5465 as residues: Pro-7 to Gly-12.
875766	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5466 as residues: Gly-21 to Phe-28.
875769	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5468 as residues: Lys-7 to Gly-12.
875772	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5469 as residues: Arg-19 to Pro-45, Gly-60 to Leu-72, Leu-90 to Asn-109.
875774	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5471 as residues: Ile-27 to Val-33, Val-63 to Ser-68.
875779	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5473 as residues: Gln-54 to Ser-63, Glu-84 to Lys-92, Val-100 to Gln-105.
875781	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5475 as residues: Glu-72 to Ala-80.
875783	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5477 as residues: Gly-1 to Asn-15.
875784	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5478 as residues: Glu-17 to Asp-22, Asn-30 to Cys-35, Leu-39 to Lys-49.
875786	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5480 as residues: Arg-8 to Thr-17.
875787	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5481 as residues: Ser-3 to Pro-16, Asp-38 to Ser-43, Arg-53 to Gln-62, Trp-78 to Ser-84.
875789	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5482 as residues: Arg-1 to Ile-8, Pro-50 to Thr-62.
875794	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5484 as residues: Thr-8 to Val-13, Tyr-39 to Arg-46.
875800	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5486 as residues: Tyr-1 to Gln-12, Gly-17 to Cys-26, Trp-37 to Asn-43, Leu-46 to Gly-51.
875804	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5488 as residues: Asp-54 to Gly-67.
875805	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5489 as residues: Ser-1 to Thr-9.
875809	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5491 as residues: Asn-16 to Leu-30, Ala-48 to Thr-53, Arg-109 to Asp-114, Arg-120 to Gly-126, Pro-153 to Asp-161, Asn-177 to Lys-186, Ser-253 to Ser-260.
875810	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5492 as residues: Pro-1 to Lys-11, Pro-31 to Leu-39, Thr-67 to Lys-77.
875814	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5493 as residues: His-1 to Gly-14, Ala-21 to Arg-30.
875815	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5494 as residues: Ile-14 to Leu-35, Pro-37 to Thr-51.
875817	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5496 as residues: Ser-15 to Ile-24, Asn-56 to Lys-67, Ser-80 to Lys-95, Gly-148 to Pro-165.
875820	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5498 as residues: Phe-2 to Ser-9, Cys-12 to Ser-23, Glu-37 to Pro-48, Glu-56 to Asp-64.
875821	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5499 as residues: Gly-98 to Ala-110.
875822	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5500 as residues: Ala-7 to Pro-18, Ser-57 to Ser-64, Phe-94 to Gln-105, Leu-129 to Gly-141.
875825	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5502 as residues: Lys-1 to Lys-19, Glu-66 to Gln-73, Asn-75 to Asn-80, Met-112 to Asn-118, Val-122 to Thr-134.
875828	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5504 as residues: His-1 to Leu-12, Leu-16 to Cys-30, Thr-46 to Asn-56.
875832	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5505 as residues: Lys-1 to Arg-9, Cys-32 to Tyr-39, Lys-53 to Gly-64, Phe-86 to Asn-92.
875836	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5508 as residues: His-79 to Ser-92.
875837	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5509 as residues: Ser-47 to Arg-54.
875838	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5510 as residues: Ser-1 to Phe-8.
875839	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5511 as residues: Gln-1 to Gly-22, Pro-36 to Arg-42, Arg-89 to Gln-94.
875840	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5512 as residues: Thr-6 to Asn-16, Gln-50 to Lys-66.
875841	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5513 as residues: Ala-44 to Arg-51, Val-71 to Ser-76.
875845	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5514 as residues: Gly-1 to Lys-6, Ser-54 to Ser-60.
875846	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5515 as residues: Ser-28 to Gly-33.
875855	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5521 as residues: Glu-13 to Asn-18, Asn-53 to Lys-59.
875856	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5522 as residues: Ala-28 to Ser-33.
875858	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5523 as residues: His-1 to Asn-17, Gly-21 to Arg-28, Lys-43 to Asn-49, Ser-64 to His-80, Ala-91 to Asp-130, Gly-144 to Ser-158.
875863	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5524 as residues: Pro-23 to Asp-28, Pro-40 to Gln-47.
875864	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5525 as residues: Pro-1 to Ser-15, Leu-27 to Lys-32, Arg-39 to Ser-53, Thr-58 to Glu-81, Gly-87 to Leu-92, Val-96 to Glu-106, Lys-114 to Ile-131, Asp-134 to Lys-140, Asn-142 to Lys-149, Lys-155 to Gly-168.
875865	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5526 as residues: His-11 to Cys-23, Ala-29 to Gln-35, His-43 to Arg-50.
875868	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5527 as residues: Arg-33 to Glu-42, Arg-45 to Gly-64, Ala-79 to Asn-117, Thr-130 to Lys-143, Ser-222 to Lys-233, Val-235 to Asn-240, Leu-289 to Met-294.
875871	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5528 as residues: Gln-1 to Ala-17, Gln-43 to Asp-48.
875874	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5529 as residues: Glu-40 to Thr-50.
875884	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5530 as residues: Ser-14 to Cys-19, Lys-53 to Asn-58, Ser-63 to Ser-70, Gly-118 to Cys-123, Cys-132 to Gly-138.
875886	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5531 as residues: Asn-46 to Glu-51.

875888	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5532 as residues: Lys-1 to Gly-17, Arg-56 to Gln-61, Gln-82 to Pro-89.
875891	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5533 as residues: Tyr-4 to Gly-11, Phe-33 to Asn-38.
875894	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5534 as residues: Arg-11 to Glu-24, Arg-39 to Glu-52, His-70 to Gly-82, His-98 to Arg-124, His-126 to Ser-142, His-154 to Gly-166.
875897	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5535 as residues: Pro-1 to Lys-8, Phe-49 to Pro-67, Leu-88 to Trp-100.
875905	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5539 as residues: Pro-19 to Cys-28, Leu-40 to Thr-49, Glu-57 to Pro-69, Phe-82 to Asn-89.
875908	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5542 as residues: Val-27 to Gly-34.
875912	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5543 as residues: Lys-5 to Gln-11, Ser-16 to Lys-28, Pro-39 to Phe-44, Thr-136 to Lys-148, Cys-182 to His-189, Val-197 to Tyr-202, Ser-273 to Gly-300.
875914	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5545 as residues: Ser-7 to Lys-13, Met-16 to Trp-21, Pro-54 to Gly-60, Ser-112 to Gly-117.
875923	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5547 as residues: Asn-1 to Lys-10, Glu-29 to Thr-35, Glu-41 to Glu-57, Glu-78 to Arg-83, Ala-97 to Trp-102.
875924	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5548 as residues: Gln-1 to Asn-8, Arg-22 to Leu-28, Ser-30 to Phe-48, Ser-51 to Glu-56, Gln-70 to Leu-88, Phe-101 to Asn-111, Arg-113 to Tyr-121, Ser-130 to Asn-135, Glu-141 to Gln-152, Asn-169 to Trp-191.
875925	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5549 as residues: Ser-45 to Ala-50.
875926	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5550 as residues: Leu-4 to Ser-13.
875927	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5551 as residues: Arg-2 to Lys-21.
875932	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5552 as residues: Asp-27 to Gln-33.
875933	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5553 as residues: Gly-1 to Gln-8, Met-19 to Ser-24.
875935	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5555 as residues: Asn-20 to Thr-25, Ser-30 to Pro-35.
875936	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5556 as residues: Gly-12 to Lys-18, Arg-46 to Glu-56, Leu-67 to Gly-73, Ala-91 to Ser-102.
875937	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5557 as residues: Arg-4 to Thr-10, Arg-61 to Glu-71, Leu-82 to Gly-88, Ala-106 to Lys-142.

875939	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5559 as residues: Arg-3 to Leu-15, Arg-17 to Asn-24.
875940	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5560 as residues: Gly-28 to Phe-34, Gly-36 to Cys-41, Arg-46 to Arg-54, Pro-75 to Arg-90.
875941	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5561 as residues: Gln-24 to Glu-35, Lys-53 to Gln-67, Pro-85 to Trp-98.
875942	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5562 as residues: Cys-74 to Ala-84.
875946	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5563 as residues: Gly-34 to Pro-48, Arg-86 to Gly-91.
875951	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5565 as residues: Pro-31 to Leu-41.
875955	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5568 as residues: His-19 to Asn-24, Pro-39 to Lys-45.
875967	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5569 as residues: Arg-30 to Arg-38.
875971	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5570 as residues: Ser-1 to Asp-8, Asn-16 to Ser-35, Asn-47 to Pro-70.
875972	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5571 as residues: Pro-14 to Arg-23, Phe-41 to Gly-49, His-69 to His-76, Tyr-84 to Asn-90.
875976	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5573 as residues: Tyr-3 to Gly-10.
875984	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5576 as residues: Ser-2 to Gln-15.
875991	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5579 as residues: Thr-47 to Gly-53.
875995	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5581 as residues: Pro-3 to Glu-8.
875999	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5584 as residues: Gly-11 to Ala-16, Gln-70 to His-78.
876006	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5586 as residues: Pro-12 to Thr-22.
876008	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5588 as residues: Cys-2 to Asn-10.
876012	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5590 as residues: Trp-30 to Thr-43.
876018	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5592 as residues: Pro-52 to Asn-63, Pro-70 to Ile-79, Arg-93 to Gln-111.
876021	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5594 as residues: Ala-59 to Ser-72, Ser-84 to Leu-94, Thr-98 to Lys-105, Val-109 to Glu-119, Asn-124 to Leu-139, Pro-146 to Ala-155, Ser-161 to Thr-190, Glu-216 to His-221, Asn-229 to Gly-240, Ile-258 to Gly-269, Thr-300 to Thr-310, Thr-312 to Ser-317.
876022	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5595 as residues: Leu-2 to Tyr-11, Glu-55 to Thr-60.
876023	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5596 as residues: Lys-45 to Phe-58, Pro-99 to Gly-105, Arg-124 to Arg-130.
876024	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5597 as residues: Cys-7 to Arg-12, Pro-32 to Ser-49, Arg-59 to Gly-70, Ala-74 to Arg-82.
876028	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5601 as residues: Gly-46 to Gly-51.
876029	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5602 as residues: Ala-4 to Thr-9, Gln-17 to Thr-40.
876044	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5606 as residues: Asn-6 to Lys-12, His-32 to Phe-41.
876045	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5607 as residues: Thr-5 to Glu-14, Pro-23 to Tyr-28, Arg-42 to Pro-49, Lys-87 to Ser-95.
876048	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5608 as residues: Gln-1 to Asp-11, Arg-18 to Gly-23, Thr-31 to Pro-38.
876057	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5611 as residues: Glu-17 to Ser-42.
876059	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5612 as residues: Pro-34 to His-49.
876065	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5614 as residues: Ser-28 to Val-33, Gln-41 to Gln-46, Gln-53 to Gln-63, Ala-76 to His-84, Ile-88 to Ser-93, Pro-99 to Ala-105, Pro-114 to Ser-122, Pro-145 to Thr-153, Pro-197 to Gln-206.
876078	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5616 as residues: Arg-71 to Trp-80, Arg-88 to Arg-99.
876079	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5617 as residues: Cys-16 to His-21, Lys-23 to Asp-31.
876081	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5618 as residues: Pro-6 to Cys-12.
876086	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5620 as residues: Cys-66 to Ser-74, Arg-81 to His-90.
876089	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5622 as residues: Ser-2 to Gly-11.
876090	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5623 as residues: Gln-1 to Glu-13, Lys-25 to Ser-34, Asp-49 to Gln-54.
876091	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5624 as residues: Phe-14 to Tyr-19, Arg-24 to Arg-32.
876093	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5625 as residues: Ser-1 to Glu-8, Asp-30 to Gly-37, Val-44 to Glu-58.
876094	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5626 as residues: Gly-1 to Gly-7, Ile-23 to Ala-29, Phe-40 to Gln-45.
876095	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5627 as residues: Lys-1 to Lys-6, Pro-8 to Glu-19.
876097	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5628 as residues: Arg-30 to Ser-37.
876098	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5629 as residues: Leu-18 to Leu-23.
876101	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5630 as residues: Gly-56 to Asp-62.
876104	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5631 as residues: Gln-1 to Glu-7, Ala-31 to Glu-48.
876107	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5633 as residues: Gly-13 to Gln-19, Arg-58 to Gly-63, Leu-129 to Pro-134.
876118	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5637 as residues: Pro-35 to Gly-42, Pro-62 to Arg-74, Val-87 to Ala-93, Leu-119 to Ala-124.
876121	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5638 as residues: Pro-2 to Pro-35, Ser-40 to Leu-57, Thr-83 to Thr-93, His-96 to Thr-105, Leu-114 to Gly-125, Asp-128 to Asp-133, Lys-146 to Ser-156.
876140	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5644 as residues: Ala-39 to Leu-47, Val-49 to Lys-55, Thr-66 to Asp-75, Thr-85 to Gly-104, Ala-114 to Gly-147, Pro-176 to Thr-199, Ser-205 to Ser-221, Glu-233 to Lys-240, Lys-246 to Asp-251, Glu-256 to Ser-267, Ser-291 to Leu-302, Thr-305 to Asp-324, Cys-336 to Val-345, Phe-367 to Cys-375.
876151	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5648 as residues: Gly-101 to Arg-106.
876152	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5649 as residues: Arg-1 to Gly-12, His-33 to Leu-42.
876155	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5651 as residues: Phe-26 to Lys-51, Gln-61 to Asp-75, Gly-86 to Asn-92, Asn-101 to Cys-106, Lys-119 to Leu-124, Pro-126 to Tyr-135, Ser-137 to Ser-150, His-161 to Ser-168, Asp-175 to Ser-182, Asn-189 to Lys-207, Pro-225 to Thr-234, His-240 to Gly-259, Glu-266 to Val-271, Asp-285 to Ala-290, Asn-321 to Ile-353.
876156	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5652 as residues: Lys-21 to Gly-26.
876170	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5656 as residues: Arg-15 to Arg-21.
876172	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5657 as residues: Trp-73 to Trp-80, Tyr-90 to Lys-97, Lys-100 to Trp-111.
876174	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5658 as residues: Gly-7 to Glu-12, Ser-16 to Gln-25.
876177	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5659 as residues: Phe-9 to Tyr-15.
876182	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5661 as residues: Pro-28 to Arg-34, His-66 to Pro-81, Ser-83 to Ala-93, Gly-98 to Lys-114.

876184	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5663 as residues: Asn-35 to Cys-40, Ser-75 to Phe-84.
876192	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5665 as residues: Thr-4 to Ser-14, Ile-83 to Ala-94.
876198	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5667 as residues: Pro-7 to Thr-17.
876200	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5668 as residues: Leu-43 to Pro-50.
876201	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5669 as residues: Pro-28 to Glu-37.
876206	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5670 as residues: Gly-29 to Asp-39.
876207	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5671 as residues: Arg-54 to Lys-95.
876208	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5672 as residues: Ser-44 to Leu-49, Lys-52 to Pro-57, Gly-65 to Phe-71, Asp-94 to Trp-99, Gly-137 to Asp-149, Ser-154 to Glu-159, Glu-168 to Ile-173.
876209	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5673 as residues: Gly-101 to Arg-107, Ser-112 to Cys-117.
876215	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5675 as residues: Phe-27 to Ile-34.
876224	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5677 as residues: Ser-58 to Gly-63, Thr-69 to Gly-76, Ser-107 to Thr-115, Ser-144 to Gly-151, Leu-175 to Trp-181.
876226	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5678 as residues: Arg-57 to Thr-62.
876228	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5679 as residues: Glu-7 to Ser-25, Lys-39 to Leu-46.
876229	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5680 as residues: Phe-48 to Ser-58.
876232	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5681 as residues: Thr-3 to Thr-8.
876238	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5683 as residues: Asn-30 to Lys-43, Pro-58 to Glu-65, Arg-77 to Asn-85.
876239	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5684 as residues: Thr-7 to Pro-15.
876259	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5685 as residues: Lys-1 to Gln-7, Gly-39 to Ile-50, Ile-68 to Cys-84, Leu-92 to Glu-99, Glu-109 to Glu-121, Pro-156 to Cys-172, Pro-174 to Thr-189, Arg-212 to Gln-227.
876260	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5686 as residues: Ala-40 to Ala-45.
876261	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5687 as residues: Arg-18 to Thr-31, Ala-39 to Gly-50, Ser-71 to Val-76.
876265	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5688 as residues: Thr-4 to Ser-9.

876266	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5689 as residues: Leu-26 to Lys-39.
876270	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5691 as residues: Pro-20 to Arg-27.
876274	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5692 as residues: Asn-52 to Ile-58.
876277	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5694 as residues: Arg-21 to Arg-30.
876280	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5696 as residues: His-16 to Phe-21.
876281	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5697 as residues: Gln-1 to Ser-8, Val-41 to Arg-47.
876282	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5698 as residues: Gln-1 to Val-6, Asp-8 to Thr-16.
876284	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5699 as residues: Ala-24 to Arg-30, Thr-88 to Pro-107.
876306	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5702 as residues: Gly-1 to Val-9, Pro-47 to His-57.
876308	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5703 as residues: Lys-28 to Ser-42, Gln-49 to Lys-57, Ser-76 to Gly-83, Glu-99 to Val-106, Gln-132 to His-142, Ala-202 to Trp-210, His-271 to Ile-287.
876309	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5704 as residues: His-58 to Ala-63, Arg-86 to Gly-92.
876322	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5705 as residues: Pro-33 to Arg-38, Thr-82 to Asp-88, Ala-103 to Lys-111, Lys-117 to Phe-122.
876326	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5706 as residues: Ser-15 to Asp-28, Glu-37 to Gly-42.
876330	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5708 as residues: Arg-41 to Lys-56.
876335	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5711 as residues: Glu-8 to Cys-16, Pro-22 to Gln-32, Lys-40 to Pro-49.
876340	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5712 as residues: Pro-1 to Glu-18, Gly-26 to Pro-33, Pro-66 to Gly-75.
876345	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5713 as residues: Arg-1 to Gly-10.
876354	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5714 as residues: Pro-12 to Thr-18.
876361	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5715 as residues: Arg-14 to Val-29.
876364	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5716 as residues: Gln-22 to Gly-28.
876370	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5717 as residues: Gly-4 to Arg-12, Gly-33 to Cys-46.
876372	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5718 as residues: Lys-30 to Glu-35.

876374	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5719 as residues: Ser-2 to Ser-8, Glu-26 to His-33, Ser-56 to Gly-61.
876380	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5722 as residues: Ser-11 to Pro-16.
876382	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5724 as residues: Glu-15 to Ser-20.
876383	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5725 as residues: Tyr-16 to Thr-21, Lys-33 to Gln-39.
876385	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5726 as residues: Leu-11 to Phe-16.
876395	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5729 as residues: Arg-7 to Ser-26.
876397	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5730 as residues: Pro-19 to Gln-25, Thr-41 to Pro-47.
876398	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5731 as residues: Glu-1 to Arg-7.
876400	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5733 as residues: Gln-13 to Trp-20, Gly-60 to Phe-65, Cys-69 to Trp-77.
876401	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5734 as residues: Gly-25 to Trp-30, Arg-37 to Gly-44, Ser-46 to Arg-59, Ser-70 to Ser-76, Leu-106 to Gly-112.
876404	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5736 as residues: Tyr-1 to Gly-17.
876405	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5737 as residues: Tyr-1 to Ala-6, Trp-30 to Ser-36, Asp-48 to Ile-62, Ile-91 to Ile-100, Asn-119 to Asn-128, Glu-146 to Glu-152.
876408	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5738 as residues: Gly-7 to Leu-15.
876409	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5739 as residues: Gly-10 to Asn-15.
876418	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5740 as residues: Pro-57 to Asp-63.
876420	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5742 as residues: Pro-6 to Ser-12.
876426	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5745 as residues: Phe-2 to Thr-12.
876428	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5747 as residues: Thr-4 to Trp-10, Pro-25 to Ala-31.
876431	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5748 as residues: Thr-1 to Gln-6, Lys-15 to Glu-23, Pro-39 to Ile-44, Asn-63 to Gln-71, Gln-101 to Arg-111, Leu-118 to Ser-124, Leu-141 to Val-146, Pro-154 to Pro-161, Ser-187 to Pro-192, Arg-207 to Met-245, Ala-253 to Ser-263.
876432	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5749 as residues: Lys-45 to Asn-55.
876435	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5750 as residues: Asp-84 to Asn-91.

876436	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5751 as residues: Pro-81 to His-89.
876440	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5752 as residues: Asp-1 to Leu-6, Glu-55 to Ser-60.
876441	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5753 as residues: Pro-14 to Leu-21, Cys-34 to Gly-39.
876448	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5756 as residues: Thr-1 to Glu-11, Thr-19 to Lys-30, Asn-32 to Glu-39, Leu-60 to Tyr-111, Ala-127 to Phe-132, Pro-184 to Thr-306.
876451	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5757 as residues: Thr-52 to Lys-59.
876452	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5758 as residues: Asn-1 to Arg-11, Val-23 to Ser-28, Asp-35 to Thr-40, Glu-116 to Arg-122, Leu-163 to Ser-170, Ile-267 to Ser-272.
876464	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5761 as residues: Thr-6 to Lys-11, Pro-58 to Ile-72, Ser-81 to Gly-94.
876465	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5762 as residues: Pro-2 to Trp-11, Pro-26 to Ala-32.
876469	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5763 as residues: Trp-1 to Leu-17.
876470	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5764 as residues: Pro-30 to Glu-41, Cys-62 to Trp-68, Leu-78 to Asn-97, Arg-131 to Asn-136.
876471	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5765 as residues: Val-7 to Leu-13, Glu-26 to Gln-32.
876472	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5766 as residues: Ser-91 to Gly-101.
876473	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5767 as residues: His-12 to His-22.
876476	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5770 as residues: Phe-2 to Trp-7, Cys-35 to Asn-46, Pro-55 to Asn-70, Pro-131 to Cys-137, Phe-141 to Thr-154, Ala-166 to Phe-177.
876481	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5772 as residues: Ala-87 to Ser-94, Asp-104 to Arg-112, Leu-114 to Asp-119, Ser-186 to Thr-202.
876483	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5773 as residues: Gly-1 to Pro-6.
876484	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5774 as residues: Met-2 to Leu-9, Lys-11 to Pro-28, Asp-57 to Leu-68, Gln-81 to Phe-118.
876487	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5775 as residues: Lys-1 to Ser-7.
876490	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5776 as residues: Glu-12 to Asp-17, Thr-26 to His-34, Asn-48 to Tyr-57.
876491	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5777 as residues: Arg-1 to Gln-11.
876494	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5778 as residues: Asn-40 to Thr-45, His-210 to Pro-215, Glu-369 to Thr-375, Lys-383 to Leu-397, Pro-438 to Ile-447, Pro-510 to Tyr-520, Arg-528 to Arg-533, Thr-549 to Thr-555.
876495	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5779 as residues: Arg-11 to Arg-29, Arg-99 to Gly-105.
876496	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5780 as residues: Glu-1 to Gly-10.
876498	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5781 as residues: Ser-1 to Ser-14.
876499	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5782 as residues: Pro-19 to Tyr-25.
876504	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5784 as residues: His-7 to Asp-12, Glu-21 to Lys-26, Gln-79 to Ser-87.
876507	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5785 as residues: Pro-1 to Ser-12, Leu-26 to Gly-54, Thr-61 to Ala-73.
876513	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5787 as residues: Ser-3 to Gly-39, Trp-89 to Asp-96, Glu-103 to Asn-111, Leu-138 to Pro-145.
876518	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5788 as residues: Met-31 to Pro-38.
876524	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5789 as residues: Pro-26 to Gln-32.
876526	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5790 as residues: Met-7 to Tyr-13.
876530	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5791 as residues: Tyr-37 to Val-45.
876533	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5792 as residues: Lys-41 to Lys-47, His-52 to Gln-58, Gln-100 to Cys-106.
876535	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5794 as residues: Asp-1 to Asp-12.
876536	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5795 as residues: Gly-11 to Gly-28, Glu-35 to Ala-40, Leu-42 to Gly-51, Ser-65 to Cys-70.
876538	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5796 as residues: Tyr-5 to Thr-12.
876543	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5798 as residues: Gln-1 to Ala-9, Cys-56 to Gly-61, Trp-105 to Thr-110, Arg-150 to Thr-155, Leu-189 to Lys-195.
876544	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5799 as residues: Thr-15 to Asp-27.
876545	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5800 as residues: Arg-1 to Asp-7, Leu-19 to Lys-33, Ser-45 to Thr-54.
876546	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5801 as residues: Thr-15 to Lys-25, Pro-35 to Phe-42, Glu-58 to Thr-72, Glu-115 to Met-126, Gln-131 to Thr-139, Ser-142 to Glu-157,

	Pro-165 to Gln-188, Phe-284 to Lys-301.
876553	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5805 as residues: Arg-14 to Arg-19, Asn-27 to Val-32, Glu-68 to Thr-77, Gly-85 to Asp-90, Asp-221 to Gln-229, Thr-236 to Val-242, Thr-259 to Trp-266, Ser-268 to Asn-273, Asn-283 to Gly-288.
876558	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5807 as residues: Arg-22 to Gln-34.
876559	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5808 as residues: Asn-15 to Ser-20, Arg-100 to Phe-107, Glu-111 to Asp-118, Ile-122 to Val-127, Cys-219 to Val-227.
876560	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5809 as residues: Pro-7 to Ser-14, Thr-26 to Cys-51, Leu-55 to Tyr-64.
876572	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5810 as residues: Lys-16 to Lys-21.
876575	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5811 as residues: Pro-10 to Trp-19, Glu-47 to Gly-52, Tyr-75 to Gly-88, Met-119 to Asp-131.
876579	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5813 as residues: Ser-2 to Pro-21.
876581	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5815 as residues: Gly-32 to Gly-44, Pro-52 to Cys-60, Asp-63 to Leu-68, Lys-148 to Asn-160.
876583	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5816 as residues: Glu-19 to Cys-30.
876595	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5821 as residues: Asn-1 to Arg-8, Glu-64 to Thr-70.
876596	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5822 as residues: Lys-61 to His-66, Glu-70 to Tyr-78, Pro-90 to Ile-95, Val-118 to Asp-127, Asp-192 to Phe-199, Asn-274 to Met-279, Ser-281 to Arg-291, Thr-306 to Tyr-315, Lys-338 to Gln-343, Lys-350 to Asp-356, Pro-374 to Asp-380, Gly-398 to Pro-405, Lys-438 to Asn-446.
876597	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5823 as residues: His-1 to Ser-6, Glu-14 to Gly-22.
876600	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5824 as residues: Asp-22 to Pro-30, Ser-49 to Asn-57, Thr-76 to Ala-91.
876601	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5825 as residues: Leu-31 to Ser-41.
876602	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5826 as residues: Leu-11 to Arg-19, Arg-33 to Ala-38, Ala-40 to Gln-46, Pro-57 to Gly-62, Ser-70 to Arg-76, Thr-97 to Arg-103, Lys-119 to Lys-124.
876608	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5827 as residues: Val-10 to Gln-18.
876609	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5828 as residues: Leu-39 to Gln-52.
876610	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5829 as residues: Ser-11 to Glu-20.
876612	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5830 as residues: Lys-1 to Asn-8, Glu-10 to Thr-15, Ser-22 to Gly-28, Pro-49 to His-54.
876622	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5832 as residues: Pro-46 to Leu-51.
876630	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5833 as residues: Gln-41 to Pro-46.
876633	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5835 as residues: Ala-1 to Leu-9, Ala-48 to Asp-55.
876638	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5837 as residues: Gln-1 to Arg-12, Asp-22 to Pro-44, Lys-52 to Asp-62, Pro-68 to Lys-93, Pro-99 to Pro-129, Ala-138 to Ser-150, Lys-156 to Val-194, Ile-197 to Glu-210, Ala-213 to Ala-287, Leu-289 to Lys-327, Lys-330 to Gly-340, Asp-344 to Gln-360, Ile-396 to Thr-401, Lys-409 to Asp-418, Met-450 to Ala-460, Glu-468 to Asp-481, Ala-490 to Ser-517, Asp-523 to Ser-555.
876643	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5838 as residues: Gln-1 to Ser-13.
876645	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5839 as residues: Gly-1 to Gln-20, Gly-22 to Glu-27, Arg-46 to Phe-52, Thr-64 to His-72, Pro-94 to Lys-109, Ser-143 to Ser-151.
876646	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5840 as residues: Ser-29 to Glu-34.
876647	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5841 as residues: Trp-41 to Ser-46, Glu-59 to Lys-66, Lys-75 to His-80.
876652	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5844 as residues: Phe-23 to Val-42.
876656	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5845 as residues: Ser-38 to Cys-51, Asn-93 to Asp-100.
876657	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5846 as residues: Pro-112 to Gly-118.
876660	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5847 as residues: Glu-20 to Arg-26, Leu-30 to Cys-36, Gln-49 to Ser-55, Lys-82 to Thr-90.
876666	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5848 as residues: Val-39 to Asn-46, Ser-95 to Asp-101, Lys-118 to Val-124.
876677	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5851 as residues: Asn-1 to Val-6, Phe-76 to Tyr-83, Gly-129 to Gln-135, Thr-145 to Asp-153, Ser-210 to Gln-220, Thr-230 to Asn-236, Lys-242 to Ala-248.
876680	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5852 as residues: Ser-1 to Thr-9, Ala-32 to Asn-37, Thr-40 to Tyr-49, Gln-71 to Thr-80.
876683	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5853 as residues: Pro-18 to Gly-29, Lys-67 to Lys-89.
876685	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5854 as residues: Lys-19 to Asn-25, Leu-27 to Leu-38, Val-61 to Val-68, Leu-152 to Tyr-159, Glu-222 to Cys-228, Asp-260 to Leu-265.
876687	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5855 as residues: Ala-60 to Arg-65, Ala-82 to Arg-87.
876689	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5856 as residues: Arg-1 to Asn-9, Gln-20 to Asn-27, His-29 to Arg-34.
876690	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5857 as residues: Pro-15 to Asn-25, Glu-48 to Phe-59, Ser-69 to Arg-74, Ala-77 to Ser-82, Leu-99 to Asn-105, Ala-108 to Pro-124, Ser-137 to Phe-150, Ser-173 to Gly-178, Pro-186 to Pro-191, Ala-199 to Lys-213, Val-229 to Asp-238, Arg-272 to Asn-290.
876693	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5858 as residues: Glu-3 to Gly-12, Arg-20 to Gln-30, Leu-34 to Gln-39, Asp-51 to Arg-58, Gln-69 to Val-77, Gly-105 to Lys-117.
876696	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5859 as residues: Arg-1 to Arg-7, Gly-72 to Asp-78, Lys-83 to Gln-90.
876701	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5861 as residues: Thr-22 to Lys-31.
876716	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5862 as residues: Tyr-28 to Leu-33, Ala-70 to Lys-87, Glu-106 to Gly-124, Gly-127 to Glu-160, Leu-179 to Asp-194.
876719	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5863 as residues: Asn-19 to Ser-25, Gln-57 to Leu-66, Asp-76 to Ser-81, Glu-101 to Gln-106, Phe-121 to Asp-127, Ser-133 to Asp-146, Thr-186 to Lys-197, Arg-259 to Leu-266, Asn-268 to Leu-274.
876725	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5865 as residues: Thr-23 to Pro-34, Glu-39 to Asp-83, Asn-89 to Lys-99, Asp-118 to Asp-128, Asn-135 to Glu-150, Glu-153 to Gly-168, Gly-181 to Thr-187, Arg-200 to Asp-205, Arg-273 to Ile-279, Thr-295 to Asp-300, Thr-316 to Cys-321.
876726	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5866 as residues: Tyr-17 to Gly-22, Lys-29 to Tyr-34, Asp-39 to Asp-44, Leu-71 to Glu-76, Pro-164 to Gly-171.
876732	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5869 as residues: Ser-1 to Gln-6, Leu-57 to Phe-62, Arg-86 to Glu-91.
876744	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5871 as residues: Thr-98 to Ser-104, Thr-115 to Tyr-126, Gln-149 to Glu-164.
876745	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5872 as residues: His-1 to Gln-7, Trp-14 to Gln-29, Arg-41 to Pro-48, Leu-91 to His-97, Pro-99 to Ser-114, Ser-119 to Gly-124.
876747	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5873 as residues: Ala-13 to Arg-35, Pro-58 to Met-75, Asn-104 to Ser-119, Pro-144 to Ile-167, Lys-183 to Phe-224, Cys-246 to Gly-252, Lys-304 to Gly-320.
876750	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 5874 as residues: Ala-1 to Ser-6, Ser-29 to Ser-37, Gln-52 to Tyr-58.
876752	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5875 as residues: Pro-44 to Gly-51.
876753	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5876 as residues: Arg-5 to Arg-12.
876760	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5877 as residues: Thr-11 to Ala-16, Thr-85 to Glu-92, Asn-114 to Glu-122, Asp-150 to Gly-156.
876762	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5878 as residues: Pro-14 to Ile-24, Thr-35 to Pro-46.
876771	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5881 as residues: His-28 to Gly-33.
876773	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5882 as residues: Gly-3 to Thr-9, Glu-39 to Lys-48, Arg-134 to Lys-139, Pro-147 to Val-152, Thr-167 to Glu-172, His-190 to Gln-196.
876791	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5885 as residues: Pro-1 to Glu-20, Leu-79 to Ser-87, Lys-90 to Gly-96, Gln-109 to Thr-121, Val-133 to Gly-139.
876798	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5887 as residues: Thr-25 to Val-31, Lys-47 to Asp-62.
876802	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5888 as residues: Leu-2 to Thr-8, Asp-15 to Gly-26, Phe-64 to Ser-70, Pro-77 to Trp-82, Pro-85 to Lys-90.
876807	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5890 as residues: Lys-12 to Ser-18, Tyr-26 to Thr-33, Leu-71 to Thr-76, Pro-102 to Ser-110, Asp-114 to Gln-119, Glu-137 to Asp-159, Gly-162 to His-172, Thr-179 to Gly-194, Ala-198 to Asp-229.
876809	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5891 as residues: Arg-7 to Lys-13, Pro-28 to Cys-34, Gly-100 to Asn-109, Cys-155 to Arg-162, Glu-214 to Gln-219, Glu-240 to Asp-246, Gly-254 to His-265.
876817	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5894 as residues: Pro-22 to Asn-28, Pro-47 to Asn-57, Glu-92 to Gly-98, Pro-120 to Ile-135, Ala-138 to Cys-155, Pro-161 to Val-181, Ala-185 to Asp-196, Val-207 to Asn-213, Asn-219 to Asn-236, Asn-242 to Asn-250, Leu-252 to Asn-274, Ala-281 to Cys-295, Pro-297 to Cys-311, Pro-317 to Asn-339, Thr-417 to Tyr-423, Gln-443 to Gly-458, Thr-471 to His-476, Thr-484 to Gln-490, Asp-497 to Trp-511.
876823	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5896 as residues: Arg-1 to Trp-23, Pro-37 to Gly-47, Gly-50 to His-56, Phe-64 to Gly-74, Pro-76 to Ala-81, Pro-84 to Gly-95, Pro-101 to Pro-112, Lys-135 to Lys-146, Lys-159 to Asp-176.
876829	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5897 as residues: Pro-51 to His-56, Glu-69 to Asn-74, Gly-190 to Lys-199.
876830	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5898 as residues: Asp-27 to Gly-39.
876842	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5902 as residues: Glu-8 to Arg-13, Leu-17 to Val-23.

876856	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5903 as residues: Glu-63 to Asn-73, Pro-114 to Tyr-122, Ser-194 to Glu-201, Ile-263 to Ser-269.
876858	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5904 as residues: Asn-1 to Val-6, Lys-9 to Gln-16, Asn-47 to Glu-53, Asn-116 to Ser-121, Pro-130 to Thr-139, His-159 to Glu-165.
876865	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5905 as residues: Leu-26 to Asp-39, Asp-47 to Arg-54, Glu-62 to Val-72.
876866	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5906 as residues: Ser-1 to Gln-8, Val-40 to Ser-49, Arg-105 to Lys-110.
876870	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5907 as residues: Ser-25 to Trp-32.
876873	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5908 as residues: Gln-21 to Met-26, Gln-50 to Lys-61.
876876	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5909 as residues: Ala-8 to Arg-14, Ile-64 to Thr-69, Val-94 to Asp-101, His-112 to Gln-117, Tyr-139 to Glu-145, Tyr-195 to Cys-208, Gly-216 to Gly-223, Asp-297 to Ser-307, Gly-378 to Leu-383, Ile-391 to Pro-404, Asn-451 to Ser-466.
876878	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5910 as residues: Pro-32 to Arg-41.
876882	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5911 as residues: Thr-4 to Gly-13, Asp-20 to Val-25, Ala-46 to Asn-65, Gly-69 to Gly-75, Pro-82 to Gly-113, Pro-119 to Pro-174, Gly-181 to Gly-187, Tyr-190 to Tyr-212.
876886	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5912 as residues: Ser-9 to Arg-22, Gln-28 to Trp-34, Gly-36 to Leu-43, Arg-45 to Trp-52, Asp-56 to Leu-61, Ala-65 to Tyr-72, Leu-102 to Gly-109, Pro-111 to Ala-116, Ala-120 to Arg-125, His-129 to Gln-134, Pro-136 to Gly-145, Pro-167 to Thr-172, Glu-232 to Lys-239, Lys-253 to Asn-258, Leu-357 to Gly-362, Leu-371 to Gly-376.
876888	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5913 as residues: Glu-31 to Asp-39.
876890	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5914 as residues: Glu-91 to Pro-100, Tyr-122 to Thr-127, Thr-168 to Val-173, Thr-210 to Asp-215, Leu-219 to Gly-224, Gly-232 to Val-237.
876892	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5915 as residues: Ser-8 to Ser-20.
876901	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5916 as residues: Tyr-130 to Glu-136, Arg-148 to His-159, Pro-214 to Leu-221, His-224 to Gly-229, Glu-238 to Glu-246, Gln-331 to Trp-343.
876904	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5918 as residues: Val-61 to Gln-69, Gln-106 to Thr-111.
876905	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5919 as residues: Arg-1 to Arg-7, Pro-29 to Lys-56, Asp-103 to Arg-108, Tyr-122 to Ser-127, Gly-219 to Glu-227, Asp-250 to Glu-255,

	Glu-294 to Pro-301, Ala-321 to Tyr-327, Arg-367 to Pro-373, Glu-396 to Asn-405, Gly-411 to Arg-418, Asn-433 to Lys-441.
876909	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5920 as residues: Ala-32 to Ala-40, Glu-93 to Phe-103, Lys-173 to Thr-189.
876912	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5921 as residues: Glu-40 to Pro-47, Lys-56 to Trp-62.
876920	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5923 as residues: Arg-1 to Gly-15, Ser-42 to Trp-51, Pro-59 to Arg-64.
876921	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5924 as residues: Tyr-1 to Leu-6.
876923	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5925 as residues: Pro-6 to Cys-14, Glu-33 to Leu-38, Val-209 to Lys-216, Pro-270 to Gln-278, His-321 to Thr-330.
876936	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5928 as residues: Ala-54 to His-67, Pro-69 to Lys-86.
876940	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5930 as residues: Ala-1 to Asp-29, Pro-51 to His-59, Asn-67 to Asp-73.
876941	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5931 as residues: Pro-16 to Arg-28.
876942	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5932 as residues: Glu-1 to Gln-6, Val-8 to Trp-15.
876943	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5933 as residues: Gly-1 to Gln-9, Asn-11 to Arg-16, Cys-28 to His-33, Pro-51 to Pro-57, Glu-66 to Glu-72, Pro-84 to Asp-89, Pro-104 to Asp-109, Glu-122 to Thr-132.
876944	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5934 as residues: Arg-3 to Gly-11.
876945	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5935 as residues: Pro-15 to Pro-24.
876946	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5936 as residues: Ser-8 to Ser-14.
876947	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5937 as residues: Gly-27 to Ala-34.
876949	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5938 as residues: Pro-5 to His-14, Arg-38 to Gln-43, Leu-80 to Arg-86.
876952	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5939 as residues: Ser-8 to Thr-18, Pro-52 to Ala-61, Pro-67 to Gly-72, Ala-81 to Thr-88, Glu-105 to Thr-120.
876953	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5940 as residues: Gly-1 to Asp-12, Ser-64 to Trp-74, Met-82 to Tyr-88, Phe-101 to Cys-106, Tyr-120 to Lys-132.
876954	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5941 as residues: Pro-1 to Ile-12, Asp-30 to Tyr-35, Leu-38 to Pro-45, Lys-54 to Thr-60, Thr-75 to Leu-80, Asp-92 to Tyr-100, Ile-133 to Thr-138, Thr-194 to Glu-199, Asp-233 to Leu-239, Met-243 to Ala-

	251, Asp-254 to Glu-261.
876957	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5942 as residues: Lys-71 to Asn-88, Ala-115 to Cys-130, Ala-175 to Arg-182.
876958	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5943 as residues: Gln-1 to Pro-8.
876963	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5946 as residues: Val-16 to Ser-21, Ala-60 to Lys-72.
876964	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5947 as residues: Thr-6 to Lys-13, Met-16 to Glu-36, Lys-59 to Phe-65, Leu-71 to Gln-77.
876966	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5949 as residues: Lys-13 to Trp-19, Ser-25 to Gln-32, Glu-53 to Gln-58, Arg-108 to Gly-113.
876967	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5950 as residues: Lys-1 to Asp-9, Arg-16 to Gly-21, Cys-51 to Val-59, Asp-65 to Ser-71, Thr-79 to Asn-90, Asn-99 to Asn-111, Ser-149 to Pro-156.
876968	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5951 as residues: Asn-44 to Tyr-49, Gly-71 to Glu-79.
876969	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5952 as residues: Arg-74 to Arg-79.
876975	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5954 as residues: Phe-12 to Ile-19, Arg-25 to Arg-31.
876976	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5955 as residues: Asn-78 to Gln-92.
876977	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5956 as residues: Asn-1 to Glu-8, Ala-38 to Gly-46, Gln-58 to Asp-71, Ala-75 to Cys-103, Met-106 to Ala-140, Gln-153 to Ile-159.
876981	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5959 as residues: Gln-40 to Lys-45.
876983	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5960 as residues: Leu-37 to Pro-42.
876984	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5961 as residues: His-5 to Thr-11, Arg-71 to Pro-77.
876985	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5962 as residues: Tyr-7 to Gly-28, Arg-38 to Asp-65, Asp-78 to Ser-90, Ser-92 to Ser-115, Asp-117 to Ser-132, Val-148 to Leu-153, Lys-155 to His-168.
876987	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5963 as residues: Lys-30 to Thr-35, Ser-49 to Tyr-55.
876989	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5964 as residues: Gly-4 to Gly-10, Glu-17 to Gly-28, Met-35 to Asp-41, Glu-79 to Gln-85, Gln-102 to Gly-110.
876992	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5967 as residues: Ser-15 to Pro-21.
876993	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5968 as residues: His-44 to Gln-52, Pro-55 to Lys-72, Ser-87 to Ser-93, Arg-105 to Leu-111, Phe-119 to Lys-124.

876994	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5969 as residues: Leu-28 to Glu-33, Met-54 to Cys-60.
876998	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5971 as residues: Glu-1 to Pro-25, Gly-30 to Ala-54, Asn-65 to Asn-82, Leu-89 to Ser-97.
877000	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5972 as residues: Ala-1 to Asn-6, Val-8 to Tyr-20.
877002	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5974 as residues: Ser-32 to Gly-53, Thr-61 to Ser-70.
877005	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5976 as residues: Gly-12 to Gly-22.
877006	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5977 as residues: Glu-8 to Ser-14, Thr-26 to Asn-40.
877007	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5978 as residues: Glu-31 to Leu-38.
877008	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5979 as residues: Ser-37 to Ser-47, Gln-58 to Thr-69, Val-72 to Gln-77, Gly-125 to Lys-155.
877010	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5981 as residues: Gly-20 to Ser-29.
877011	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5982 as residues: Ser-30 to Trp-36.
877014	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5985 as residues: Asp-1 to Arg-31, Lys-35 to Lys-44, Glu-55 to Leu-61, Thr-71 to Asp-76, Ile-82 to Asn-101.
877015	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5986 as residues: Lys-1 to His-12, Ser-26 to Thr-31, His-54 to Val-60.
877018	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5987 as residues: Gly-9 to Glu-16, Asn-46 to Glu-54.
877019	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5988 as residues: Lys-24 to Glu-38, Arg-48 to Ala-54, Gly-61 to Ala-67.
877022	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5990 as residues: Arg-10 to Gly-15, Thr-55 to Lys-64.
877024	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5992 as residues: Thr-19 to Pro-26.
877025	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5993 as residues: Gly-19 to Asn-27.
877026	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5994 as residues: Met-27 to Asn-34, Val-57 to Glu-84, Glu-86 to Ala-100, Asp-122 to Ala-128.
877027	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5995 as residues: Gln-36 to Ser-42.
877030	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 5997 as residues: Glu-30 to Ala-35, Leu-39 to Ser-44, Pro-50 to Asp-57.
877037	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6001 as residues: Gln-61 to Lys-67.

877044	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6003 as residues: Arg-22 to Gly-27, Ser-34 to Gly-39.
877046	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6004 as residues: Phe-65 to Trp-73, Arg-87 to Gly-92, Gly-107 to Lys-112, Pro-177 to Thr-186, Glu-251 to Arg-256, Phe-282 to Lys-287.
877047	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6005 as residues: Tyr-2 to Gly-8.
877049	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6006 as residues: Pro-2 to Pro-11.
877050	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6007 as residues: Ser-36 to Lys-42.
877051	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6008 as residues: Gln-5 to Arg-12, Tyr-32 to Ser-43.
877056	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6010 as residues: Pro-52 to Val-57, Asp-59 to Gln-69.
877058	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6012 as residues: Thr-13 to Pro-20.
877059	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6013 as residues: Leu-30 to Ser-38.
877063	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6014 as residues: Asp-4 to Ala-15.
877066	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6016 as residues: Gln-1 to Trp-11, Pro-47 to Tyr-53.
877067	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6017 as residues: Pro-11 to Asp-16, Arg-23 to Gln-29.
877068	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6018 as residues: Lys-26 to Arg-32.
877070	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6020 as residues: Arg-33 to Leu-40.
877071	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6021 as residues: Pro-23 to Asn-31, Leu-33 to Phe-38.
877073	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6022 as residues: Ser-1 to Ser-17.
877087	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6027 as residues: Arg-1 to Met-6, Thr-34 to Glu-54, Glu-58 to Asn-63.
877088	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6028 as residues: Thr-6 to Gly-13, Trp-20 to Thr-36.
877092	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6029 as residues: Arg-17 to Gly-23.
877093	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6030 as residues: Pro-33 to Cys-43.
877094	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6031 as residues: Pro-9 to Tyr-17, Gln-29 to Tyr-38, Ala-47 to Glu-55.
877096	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6033 as residues: Lys-9 to Ser-17.
877097	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6034 as residues: Phe-34 to Ser-39, Glu-63 to Phe-74, Leu-78 to Pro-83.
877098	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6035 as residues: Lys-1 to Asp-8.
877099	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6036 as residues: Pro-10 to Gly-17, Tyr-23 to Ser-28.
877101	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6037 as residues: Asp-22 to Cys-28, Gly-87 to Leu-93, Lys-128 to Asn-151.
877105	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6039 as residues: Pro-48 to Cys-53.
877106	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6040 as residues: Gln-3 to Ile-12.
877110	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6041 as residues: Val-6 to Ala-13.
877111	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6042 as residues: Phe-56 to Asn-72, Gln-84 to Leu-93, Ser-96 to Pro-109, Pro-116 to Glu-126.
877114	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6044 as residues: Lys-13 to Lys-21.
877119	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6045 as residues: Ala-16 to Ser-22.
877120	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6046 as residues: Pro-1 to Gly-14, Gly-33 to Ser-40, Gln-80 to Ser-101.
877121	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6047 as residues: Arg-34 to Ser-40.
877123	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6049 as residues: Thr-33 to Asp-38.
877126	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6050 as residues: Gly-10 to Leu-22, Gly-47 to Lys-62.
877132	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6054 as residues: Ser-2 to Lys-8.
877133	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6055 as residues: Thr-1 to Asp-8.
877135	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6057 as residues: Leu-7 to Leu-13, Pro-15 to Cys-28, Ser-50 to Lys-56.
877137	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6058 as residues: Glu-65 to Arg-72.
877138	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6059 as residues: Lys-15 to Thr-21.
877140	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6061 as residues: Ile-45 to Phe-51.
877142	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6062 as residues: Thr-5 to Ser-12.
877143	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6063 as residues: Arg-1 to Leu-6.
877148	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6067 as residues: Leu-32 to Trp-37.
877149	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6068 as residues: Lys-72 to Gln-86.
877153	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6069 as residues: Cys-40 to Cys-46.
877154	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6070 as residues: Asn-24 to Phe-29, Thr-45 to Lys-50.
877165	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6074 as residues: Arg-6 to Lys-11, His-20 to Asn-25.
877166	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6075 as residues: Tyr-1 to Arg-7.
877167	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6076 as residues: Glu-25 to Asn-34.
877168	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6077 as residues: Tyr-1 to Ile-6, Val-17 to Ser-23, Thr-35 to His-40.
877169	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6078 as residues: Pro-1 to Met-12.
877170	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6079 as residues: Ser-4 to Lys-9.
877171	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6080 as residues: Val-10 to Leu-15, Arg-34 to Leu-40.
877173	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6081 as residues: Pro-18 to Gly-31.
877174	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6082 as residues: Lys-16 to Gln-21.
877175	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6083 as residues: Glu-2 to Ser-9.
877181	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6085 as residues: Glu-16 to Glu-23.
877187	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6088 as residues: Asp-41 to Ile-50, Thr-73 to Val-89, Gln-118 to Asp-123.
877194	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6091 as residues: Gly-53 to Asp-63.
877195	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6092 as residues: Pro-17 to Ile-24, Pro-28 to Phe-34.
877200	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6093 as residues: Thr-29 to Lys-35, Asp-44 to Cys-49.
877202	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6094 as residues: Gly-17 to Ala-23, Leu-52 to Asn-58.
877205	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6095 as residues: Lys-12 to Asp-18, Leu-40 to Arg-67, Val-75 to Asp-84.
877207	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6097 as residues: Ala-19 to Arg-29.
877208	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6098 as residues: Tyr-4 to Gln-9.
877211	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6099 as residues: Asp-12 to Arg-17, Asp-34 to Gln-43, Asn-78 to Glu-84, Ser-99 to Ala-105, Ser-108 to His-113, Ile-115 to Gly-122, Phe-132 to Arg-148.
877212	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6100 as residues: Gln-1 to Ser-9.
877213	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6101 as residues: Arg-42 to Gln-53, His-56 to Ala-62, Asn-73 to Pro-81.
877214	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6102 as residues: Ser-15 to Cys-23.
877218	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6104 as residues: Lys-33 to Phe-40, Pro-64 to Arg-72, Arg-105 to Gly-110.
877220	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6105 as residues: Gly-1 to Thr-14, Ala-27 to Leu-32, Pro-47 to Pro-54.
877230	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6108 as residues: Thr-1 to Asn-8.
877231	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6109 as residues: Gly-1 to Ser-20, Phe-29 to Asn-37, Asn-55 to Tyr-64, Ala-69 to Asp-78, Tyr-82 to Ala-91, Lys-100 to Glu-122.
877232	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6110 as residues: Lys-41 to Ile-47.
877233	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6111 as residues: Ile-11 to Phe-16, Tyr-27 to Pro-33.
877234	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6112 as residues: Ala-13 to His-18, Gly-24 to Thr-29, Pro-31 to Gly-39, Pro-49 to Asp-56, Trp-64 to Asp-72, Pro-74 to Asp-80.
877235	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6113 as residues: Thr-6 to Gly-12, Pro-41 to Asp-48, Gly-54 to Phe-62, His-94 to Tyr-102, Ser-108 to Gly-123, Gln-130 to Asn-136, Tyr-169 to His-175, Phe-188 to Arg-195, Trp-232 to Ile-237.
877240	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6115 as residues: His-1 to Leu-8, Ala-42 to Arg-50, His-74 to Tyr-81.
877242	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6116 as residues: Asp-25 to Asn-30.
877250	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6118 as residues: Thr-11 to Cys-22, Gly-29 to Gly-37, Arg-74 to Asn-91, Phe-110 to Pro-119, Thr-144 to Gln-149, Tyr-165 to Gly-171, Pro-190 to Ser-196.
877251	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6119 as residues: Ala-5 to Ser-11, Thr-32 to Thr-37, Gln-46 to Asp-57, Ala-70 to Gly-78.
877254	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6120 as residues: Val-50 to Tyr-55, Thr-63 to Thr-68, Phe-77 to Gly-92, Arg-112 to Lys-119.
877258	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6124 as residues: Thr-1 to Ser-6, Thr-40 to Trp-49, Asn-65 to Lys-72.

877263	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6126 as residues: Asp-1 to Ser-16, Pro-21 to Glu-26, Pro-46 to Asn-55, Thr-74 to Leu-86, Ser-96 to Asp-105.
877264	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6127 as residues: Thr-1 to Arg-6, Ser-14 to Arg-20.
877272	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6128 as residues: Ile-55 to Leu-69, Thr-84 to Pro-94, Pro-104 to His-120.
877274	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6129 as residues: Glu-50 to Pro-58, Ile-88 to Gly-97, Pro-107 to Gly-116, Gln-136 to Gly-142, Asp-164 to Glu-176.
877275	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6130 as residues: Pro-1 to Gln-19, Cys-27 to Thr-34, Ile-49 to Trp-56.
877281	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6132 as residues: Lys-17 to Thr-23.
877282	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6133 as residues: Ala-1 to Lys-7, Asp-12 to Phe-17, Ile-24 to Glu-43.
877283	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6134 as residues: Lys-18 to Ile-23.
877284	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6135 as residues: Ile-41 to Trp-46, Glu-64 to Gly-80, Glu-134 to Gly-141, Phe-143 to Ser-158, Gln-207 to Asp-212.
877285	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6136 as residues: His-1 to Leu-11.
877290	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6140 as residues: Pro-34 to Tyr-40, Ser-67 to Trp-73, Asp-103 to Phe-109, Gln-130 to Gly-135, Trp-188 to Trp-197, Leu-327 to Asn-333, Gly-401 to Asn-407, Asn-473 to Val-483, Ser-523 to Gln-529, Arg-538 to Ser-544, Ala-563 to Ser-573, Gln-581 to Thr-592.
877295	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6141 as residues: Gln-54 to Leu-66, Pro-74 to Asp-79, Val-104 to Leu-112, Asn-114 to Asn-122, Glu-141 to Lys-152, Pro-265 to Leu-271, Phe-275 to Ser-280, Glu-298 to Ala-304, Arg-317 to Leu-323, Gln-332 to Tyr-337, Gln-342 to Arg-352.
877298	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6142 as residues: Ser-60 to Gly-66.
877301	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6144 as residues: Gln-17 to Lys-24, Ala-28 to Cys-35.
877310	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6145 as residues: Met-2 to Leu-12, Ser-16 to Asp-23, Gly-38 to Lys-45.
877319	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6146 as residues: Ala-30 to Glu-44.
877321	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6148 as residues: Gln-1 to Arg-7.
877326	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6150 as residues: Thr-25 to Asp-31.

877327	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6151 as residues: Thr-3 to Ser-10.
877332	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6154 as residues: Gly-26 to Arg-43.
877333	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6155 as residues: Pro-10 to Trp-19.
877334	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6156 as residues: Ala-18 to Ala-32, Thr-52 to Ser-60.
877336	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6157 as residues: Cys-10 to Phe-17.
877340	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6160 as residues: Ser-32 to Arg-38, Ala-72 to Lys-79, Arg-103 to Phe-111.
877344	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6161 as residues: His-41 to Thr-48.
877346	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6162 as residues: Ala-66 to Gln-78.
877355	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6165 as residues: Ser-12 to His-21, Pro-59 to Asp-69.
877356	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6166 as residues: Ser-12 to His-21, Pro-59 to Glu-68.
877361	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6168 as residues: Pro-1 to Ser-7, Thr-45 to Leu-63, Arg-113 to Thr-118, Pro-172 to Gly-182.
877370	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6170 as residues: Asp-17 to Gly-23, Lys-89 to Asp-94, Lys-129 to Asp-134, Leu-195 to Glu-204, Asn-325 to Val-336.
877373	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6171 as residues: His-8 to Gly-18, Gln-56 to Arg-61, Arg-160 to Pro-170, Ala-200 to Ser-212, His-225 to Lys-231, Gly-245 to Lys-254, Tyr-257 to Tyr-277, Pro-279 to Thr-287, Pro-305 to Gly-327, Tyr-342 to Glu-348.
877375	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6172 as residues: Gln-1 to Ser-22, Lys-40 to Phe-48, Leu-52 to His-57.
877377	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6173 as residues: Ser-27 to Thr-42, Lys-71 to Lys-85, Gly-99 to Arg-105.
877378	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6174 as residues: Lys-25 to Lys-39, Gly-53 to Arg-59, Ser-172 to Val-181.
877380	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6175 as residues: Glu-7 to Arg-20, Thr-28 to Trp-44, Ser-110 to Lys-118, Pro-124 to Arg-130, Ala-137 to Asn-147.
877384	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6176 as residues: Thr-2 to Leu-9, Thr-12 to Gly-17, Glu-26 to Ser-61, Asn-70 to Cys-80, Cys-84 to Ala-91, Lys-111 to Ser-119, Asn-170 to Gln-183, Ser-203 to Lys-210, Gln-216 to Pro-229, Arg-238 to Trp-255, Ile-257 to Phe-269.

877387	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6177 as residues: Asp-12 to Tyr-18, Pro-57 to Leu-63, Glu-90 to Ala-96, Gly-102 to Val-111, Gln-123 to Ile-129, Asp-143 to Ala-150, Lys-156 to Arg-161, Thr-213 to Cys-220, Arg-256 to Tyr-261, Ser-265 to Asp-274, Asp-290 to Ser-297, Val-307 to Arg-313, Asp-324 to Lys-337, Ser-438 to Arg-443, Asn-580 to Glu-585.
877388	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6178 as residues: Gly-15 to Asn-22.
877390	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6179 as residues: Cys-7 to Gly-24, Thr-31 to Val-53, Trp-102 to Glu-108, Thr-118 to Gly-124.
877393	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6180 as residues: Glu-4 to Trp-9.
877406	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6182 as residues: Asn-1 to Glu-27, Lys-37 to Lys-46, Arg-59 to Lys-83, Asn-89 to Phe-95, His-102 to Asn-107, Ser-155 to Ile-168, Pro-175 to Gln-188, Asn-201 to Pro-211, Ala-234 to Ile-239, Asn-249 to Val-257, Pro-261 to Gly-275.
877408	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6183 as residues: Gln-1 to Pro-16, Pro-21 to Pro-30, Gly-47 to Gly-65, Tyr-78 to Leu-86, Glu-88 to Pro-104, Glu-118 to Ala-131, Ala-143 to Trp-150, Asp-152 to Ser-157, Ser-180 to Trp-187, Ser-190 to Pro-197, Ala-211 to Asn-219, Asp-252 to Leu-257, Thr-287 to Val-295.
877411	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6184 as residues: His-20 to Gln-25, Asn-36 to Ser-56.
877630	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6186 as residues: Gln-40 to Phe-45.
878274	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6191 as residues: Pro-6 to Trp-14, Tyr-19 to Leu-26, Pro-56 to His-66, Tyr-70 to Arg-80, Thr-83 to Leu-100, Cys-107 to Phe-112, Lys-137 to Arg-148, Pro-155 to Leu-162.
878374	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6192 as residues: Arg-20 to Leu-28, Phe-57 to Arg-79.
878403	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6193 as residues: Ser-2 to Thr-8.
878433	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6194 as residues: Asn-17 to His-24, Pro-97 to Glu-111.
878436	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6195 as residues: Ser-18 to Thr-25.
878560	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6196 as residues: Thr-33 to Pro-40, Asp-62 to Glu-67, Ser-104 to Phe-109.
878800	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6197 as residues: Leu-24 to Arg-30.
878909	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6198 as residues: Pro-14 to Ser-19, His-40 to Trp-49.
878917	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6199 as residues: Glu-26 to Thr-32, Ser-41 to Pro-46, Leu-107 to Glu-115.
879009	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6201 as residues: Trp-60 to His-68, Pro-99 to Gly-106.
879234	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6202 as residues: Ser-46 to Thr-64, Thr-69 to Gly-79, Ser-102 to Arg-115, Leu-137 to Thr-144, Ala-146 to Pro-153, Pro-163 to Arg-180, Cys-209 to His-229.
879386	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6203 as residues: Pro-3 to Cys-11, Pro-70 to Phe-83, Ser-101 to Leu-107, Glu-110 to Pro-116, Lys-153 to Arg-158.
879484	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6204 as residues: Lys-44 to His-50, Thr-110 to Pro-116, Lys-178 to Gln-183, Pro-196 to Lys-205, Arg-214 to Thr-220, Asp-295 to Leu-301, Pro-316 to Glu-324, Glu-331 to Tyr-336, Gly-347 to Val-354.
879595	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6205 as residues: Pro-7 to Ser-15, Gly-49 to Ala-55, Gln-74 to Pro-86.
879661	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6206 as residues: Arg-10 to Arg-20, Gly-48 to Val-53, Glu-69 to Asp-76, Glu-116 to Glu-122, Glu-132 to Trp-143, Asp-166 to Asn-175, Arg-191 to Asn-197, Gln-205 to Gly-233, Lys-235 to Ala-274.
880071	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6208 as residues: Ser-36 to Ser-41, Ser-77 to Gln-83.
880074	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6209 as residues: Ser-7 to Gln-12, Gly-25 to Gly-31, Gly-71 to Gly-84, Leu-147 to Glu-164, Trp-172 to Leu-180.
880418	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6210 as residues: Ser-56 to Val-64, Lys-66 to Cys-73.
880649	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6212 as residues: His-28 to Gly-35, Gln-141 to His-147, Glu-232 to Gln-237, Ala-264 to Glu-269.
880694	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6213 as residues: Glu-21 to Glu-27, Arg-34 to Ile-41, Leu-83 to Ala-93, Pro-120 to Glu-130.
880747	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6214 as residues: Pro-16 to Phe-23, Gln-45 to Cys-50, Asn-66 to Asn-73, Ile-98 to His-105, Pro-183 to Pro-190, His-206 to Ser-212, Thr-295 to Pro-316, Ser-364 to Trp-370, Gln-385 to Asn-396.
880994	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6216 as residues: Ile-32 to Tyr-47.
881105	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6220 as residues: Arg-9 to Gln-35, Ile-113 to Gly-120.
881219	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6221 as residues: Ser-17 to Thr-25, Lys-39 to Thr-48, His-53 to Arg-60, Pro-67 to Asn-72, Thr-157 to Phe-165, Gln-212 to Glu-221, Gly-241 to Ser-260, Thr-294 to Phe-300, Ile-319 to Lys-328, Ser-338 to Lys-343, Leu-383 to Phe-388, Gly-430 to Asp-441, Ser-466 to Glu-475, Gln-541 to Pro-554, Val-583 to Thr-595, Leu-598 to Arg-603, Gln-608 to Gln-614, Asp-639 to Asn-648, Asp-654 to Phe-667, Lys-676 to Val-704, Lys-725 to Ser-731, Pro-739 to Ala-763, Asp-772 to Gly-778.
881221	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6222 as residues: Ile-1 to Lys-11, Asn-59 to Phe-65, Phe-70 to

	Asn-79, Lys-156 to Glu-162, Pro-168 to Asp-175, Pro-213 to Leu-219, Asn-246 to Leu-266, Ser-275 to Asp-286, Gln-334 to Leu-345.
882330	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6223 as residues: Arg-20 to Ser-27, Glu-40 to Glu-50.
882715	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6224 as residues: Glu-4 to Asn-14, Gln-66 to Gly-73, Leu-88 to Leu-97, Val-101 to Gln-107.
882729	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6225 as residues: Arg-7 to Gly-12, Met-42 to Ser-58, Gln-65 to Asn-73, Glu-91 to Ala-99, Pro-103 to Tyr-109, Arg-174 to Ala-179, His-189 to Gln-196, Asn-208 to Pro-219.
882762	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6226 as residues: Arg-8 to Asn-30, Ser-37 to Gln-42, His-74 to Leu-82, Arg-92 to His-97, Gln-114 to Leu-119, Gly-131 to Gly-137.
883172	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6227 as residues: His-1 to Arg-10.
883371	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6230 as residues: Asp-24 to Trp-41, Tyr-106 to Lys-114, Ala-161 to Glu-167, Pro-182 to Leu-190, Ala-193 to Pro-200, Leu-205 to Tyr-212, Pro-240 to Lys-252, Pro-254 to Lys-262, Leu-293 to Leu-303.
883753	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6231 as residues: Gly-156 to Met-161, Cys-186 to Lys-197.
883799	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6232 as residues: Ser-1 to Glu-18, Val-79 to Glu-88.
883945	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6233 as residues: Ser-21 to Arg-28.
883971	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6234 as residues: Ser-19 to Gly-24, Gly-54 to Ser-59.
884038	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6235 as residues: Pro-18 to Asn-25, Ala-44 to Asn-50, Arg-56 to Lys-64, Gly-76 to Gly-85, Lys-92 to Leu-98, Gly-116 to Gly-121, Gln-132 to His-138, Thr-159 to Asp-167.
884095	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6236 as residues: Arg-50 to Thr-56, Pro-116 to Arg-121, Lys-129 to Phe-136, Glu-139 to Leu-144, Lys-156 to Leu-162.
884161	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6237 as residues: Asn-16 to Tyr-23, Glu-47 to Trp-56, Ser-90 to Lys-96, Ala-126 to Glu-136, Pro-138 to Lys-149, Glu-181 to Gly-186, Trp-208 to Lys-219, Arg-347 to Ala-358, Leu-370 to Lys-381, Thr-408 to Ile-415, Pro-425 to Leu-437, Gln-450 to Asn-455.
884168	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6238 as residues: Glu-94 to Tyr-102, Pro-105 to Asn-112, Thr-121 to Gly-137, Glu-157 to Gly-162, Glu-179 to Phe-186, Cys-211 to Thr-222, Ser-240 to Lys-245, Thr-262 to Asn-279, Arg-288 to Pro-306, Asn-332 to Gln-339, Ser-375 to Leu-382, Arg-408 to Gly-415, Asp-423 to Thr-428, Ser-471 to Asn-476, Pro-545 to Gly-551, Ser-606 to Pro-616, Ala-662 to Gly-667, Thr-675 to Tyr-682, Glu-714 to Trp-720, Pro-722 to Val-732, Pro-787 to Thr-795, Arg-811 to Glu-816, Gln-880 to Thr-891.
884215	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6239 as residues: Met-10 to Gln-18, Pro-23 to Leu-31, Glu-46 to Arg-51, Phe-135 to Pro-143, His-218 to Asp-227, Pro-244 to Met-250, Lys-258 to Asp-263, Pro-266 to Leu-276, Pro-286 to Asp-293.
884529	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6241 as residues: Arg-8 to Ser-15, Gln-89 to Gln-95, Leu-109 to Tyr-115, Glu-126 to Arg-133.
884719	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6242 as residues: Arg-4 to Ala-10, Arg-40 to Gly-45, Asp-86 to Tyr-91, Pro-100 to Phe-113.
885350	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6243 as residues: Arg-15 to Pro-21, Cys-29 to Cys-41, Pro-52 to Leu-63, Pro-98 to Ser-108, Tyr-113 to Cys-118, Cys-124 to Asp-129, Cys-180 to Gln-187, Cys-247 to Cys-259, Ser-279 to Trp-286, Cys-296 to Cys-302, Pro-304 to Cys-309, Ser-343 to His-348, Gln-367 to Lys-373.
885476	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6244 as residues: Lys-28 to Glu-51, Lys-123 to Leu-133.
885484	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6245 as residues: Arg-1 to Glu-10, Gly-22 to Gly-27.
886505	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6248 as residues: Ser-64 to Gln-70, Ala-75 to Leu-80, His-82 to Gly-87, Ser-121 to Lys-137.
886788	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6250 as residues: Lys-60 to Lys-65, Lys-78 to Lys-94, Leu-116 to Gln-123.
887098	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6252 as residues: Pro-1 to Ala-9, Val-56 to Val-63, Gly-86 to Glu-91.
887114	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6253 as residues: Glu-38 to Arg-52, Ser-56 to Val-62.
887155	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6254 as residues: Thr-3 to Pro-9, Pro-18 to Gly-25, Ala-30 to Gly-36, Arg-41 to Asp-56, Ala-60 to Pro-68, Met-99 to Leu-128, Thr-143 to Phe-157.
887172	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6255 as residues: Cys-5 to Ser-14, Val-83 to Ser-88.
887192	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6256 as residues: Glu-29 to Cys-39, Val-46 to Ser-52, Asn-58 to Gly-65, Cys-68 to His-82, Tyr-84 to Gly-94, Leu-122 to Trp-138, Ala-158 to Leu-170, Gly-175 to Arg-182, Tyr-203 to Ser-210, Gly-246 to Met-258, Arg-288 to Gln-296.
887280	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6257 as residues: Asn-1 to Gly-15, Pro-18 to Asn-28, Gln-35 to Glu-40, Arg-60 to Arg-69.
887399	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6258 as residues: Pro-8 to Gly-18, Ala-94 to Gly-99, Asn-107 to Arg-112, Phe-161 to Arg-166, Thr-196 to Phe-201, Tyr-309 to Gly-316, Leu-326 to Arg-331.
887535	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6261 as residues: Glu-26 to Gly-32, His-73 to Arg-79.

887803	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6262 as residues: Ala-1 to Gln-7, Lys-24 to Ser-30, Pro-44 to Ser-49, Ser-99 to Ser-105.
887857	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6263 as residues: Pro-1 to Ser-6, Pro-25 to Cys-31, Arg-142 to Lys-150, Pro-223 to Gly-230, Ala-233 to Val-247.
887892	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6264 as residues: Ser-10 to Ile-15, Val-60 to Arg-66, Tyr-114 to Leu-128.
887936	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6265 as residues: Leu-1 to Cys-6, Lys-46 to Thr-53, Ala-56 to Glu-63.
887996	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6266 as residues: Ala-1 to Gly-6, Pro-9 to Pro-24, Gln-70 to Tyr-82, Glu-127 to Ser-134.
888051	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6268 as residues: Trp-45 to Trp-56, Thr-58 to Asp-73, Thr-126 to Arg-133, Phe-148 to Ser-155, Val-208 to Gly-223.
888153	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6270 as residues: Gly-5 to Leu-12, Tyr-18 to Asp-25, Ile-88 to Ala-125, Ser-129 to Tyr-141, Gln-191 to Gln-196, Thr-290 to Asn-296, Thr-301 to Thr-309, Leu-360 to Ala-365, Leu-367 to Gly-378, Pro-398 to Gly-418, Pro-443 to Gly-454.
888402	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6272 as residues: Leu-11 to Asn-16, Gly-164 to Glu-171, Leu-181 to Ser-186, Asp-193 to Ser-201, Glu-222 to Leu-229, Gln-238 to Tyr-245, Leu-256 to Asp-267, Gly-286 to Gln-301, Ser-311 to Ala-319, Glu-345 to Gly-351, Phe-361 to Asp-367, Thr-436 to Arg-443, Ile-460 to Gln-467, Gln-510 to Glu-533, Ala-541 to Ala-548, Gln-561 to Glu-571, Leu-581 to Ala-590, Phe-639 to Ser-652.
888708	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6275 as residues: Ile-27 to Val-33, Ala-63 to Ser-69, Pro-128 to Ser-135.
888720	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6276 as residues: Phe-34 to Glu-44, Glu-111 to Gly-122.
888950	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6278 as residues: Lys-56 to Gln-64, Pro-172 to Gly-183, Asp-208 to Asn-216, Glu-227 to Gly-232, Pro-259 to Arg-269, Asn-281 to His-286.
889136	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6279 as residues: Arg-1 to Lys-14, Glu-19 to His-26.
889263	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6280 as residues: Gly-18 to Gly-30.
889299	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6281 as residues: Leu-5 to Ser-12.
889300	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6282 as residues: Glu-15 to Gly-22, Asn-45 to Pro-51, Glu-141 to Asn-146, Asp-154 to Gln-163, Glu-185 to Ser-191, Arg-200 to Pro-206, Asp-220 to Asn-225, Glu-231 to Asn-237, Ser-262 to Gly-269, Pro-276 to Ala-281, Glu-314 to Thr-320, Ser-416 to His-424, Gly-426 to

	Ala-438, Pro-445 to Phe-450, Arg-464 to Leu-469.
889323	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6283 as residues: Pro-1 to Gly-11, Pro-13 to His-42, Arg-55 to Arg-66, Arg-84 to Gly-91, Gly-96 to Pro-101, His-112 to Pro-118.
889368	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6284 as residues: Pro-1 to Asn-9.
889467	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6285 as residues: Asp-10 to Asp-19, Ala-63 to Asp-68.
889494	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6286 as residues: Arg-1 to Ser-6.
889700	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6287 as residues: Ala-4 to Gly-14, Pro-20 to Cys-27, Leu-88 to Gly-94, Gly-106 to Lys-120, Pro-144 to Leu-150.
889782	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6288 as residues: Val-103 to Ser-108.
889954	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6289 as residues: Glu-21 to Tyr-33, Ile-90 to Ser-95, Pro-103 to Val-111, Ala-133 to His-140, Asn-153 to Trp-159, Gln-187 to Glu-192, Lys-214 to Arg-224.
889994	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6291 as residues: Ala-1 to Gln-7, Lys-24 to Ser-30, Pro-44 to Ser-49.
890666	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6292 as residues: Pro-36 to Trp-51, Arg-96 to Gly-104, Glu-134 to Asn-144, Pro-203 to His-210, Cys-228 to Asp-235, Gly-278 to Tyr-284, Ser-309 to Pro-316, Thr-325 to Ala-333, Ser-337 to Glu-357, Tyr-390 to Gly-403, Tyr-409 to Gly-421.
890698	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6293 as residues: Ser-37 to Asp-43.
890776	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6296 as residues: Ser-4 to Trp-13, Pro-276 to Ala-282, Ala-341 to Arg-347.
890801	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6297 as residues: Asn-9 to Arg-15.
890820	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6298 as residues: Arg-110 to Asp-115, Leu-185 to Gln-193, Ser-201 to Asp-208, Arg-215 to Arg-221, Arg-242 to Tyr-250, Thr-315 to Thr-320, Lys-359 to Val-367, Ser-395 to Tyr-401, Met-406 to Lys-411.
891264	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6302 as residues: Asp-1 to Gly-15, Ala-22 to Tyr-28.
891305	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6303 as residues: Asp-39 to Tyr-44, Thr-46 to Asn-55, Ser-78 to Ala-87.
892113	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6305 as residues: Gln-15 to Gln-22, Leu-216 to Lys-223.
892177	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6306 as residues: His-8 to Gly-18, Glu-100 to Asn-107, Glu-121 to Asn-126, Lys-128 to Ala-140, Ala-180 to Arg-186, Phe-230 to Thr-238, Pro-325 to His-341.

892367	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6308 as residues: Ser-31 to Gln-40..
892563	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6310 as residues: Arg-1 to Gly-23.
892820	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6311 as residues: Pro-8 to Thr-19.
893457	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6313 as residues: Lys-12 to Thr-18.
893827	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6314 as residues: Glu-37 to Asn-42, Ser-48 to Thr-54, Pro-101 to Glu-106.
893842	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6315 as residues: Asp-1 to Tyr-7, His-71 to Pro-78.
893866	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6316 as residues: Ala-12 to Lys-28, Ala-88 to Gly-95, Thr-100 to Cys-109.
894012	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6318 as residues: Ser-39 to Gln-48, Ala-61 to Pro-69.
894051	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6319 as residues: Arg-52 to Glu-66.
894121	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6320 as residues: Gly-28 to Ser-36, Trp-38 to Pro-60, Pro-98 to Thr-104, Pro-113 to Tyr-118, Phe-133 to Gly-140, Pro-186 to Leu-192, Glu-239 to Gly-246, Pro-257 to Lys-269, Lys-273 to Lys-279.
894341	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6321 as residues: Asn-18 to Asp-29.
894631	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6323 as residues: Met-1 to Gly-17, Pro-22 to Gly-30, Gly-72 to His-82, Leu-89 to Lys-95.
894806	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6324 as residues: Leu-99 to Ser-104.
894811	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6325 as residues: Asn-1 to Asn-8, Phe-49 to Asn-54, Glu-57 to Ser-63.
894820	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6327 as residues: Leu-8 to Gly-15.
894824	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6328 as residues: Ser-8 to Asp-13, Arg-19 to Ser-25.
894827	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6329 as residues: Arg-5 to Lys-11.
894830	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6330 as residues: Thr-102 to Gln-132.
894831	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6331 as residues: Ile-132 to Gly-138, Phe-149 to Thr-154.
894832	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6332 as residues: Pro-6 to Lys-17, Ser-66 to Pro-72, Pro-84 to Val-93.
894842	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6333 as residues: Ser-65 to Asp-70.

894878	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6334 as residues: Arg-9 to Trp-27, Pro-39 to Asn-44.
895122	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6335 as residues: Thr-11 to Pro-34, Asn-151 to Glu-157, Asp-302 to Phe-309, Tyr-333 to Gly-339.
895303	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6336 as residues: His-1 to Asp-9, Leu-11 to Glu-24, Pro-59 to Gln-65.
895372	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6337 as residues: Asn-7 to Ser-19, Arg-81 to Asn-94, Lys-99 to Asp-104.
895675	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6338 as residues: Asn-47 to Gly-52, Pro-67 to Asp-72, Pro-100 to Leu-105, Ser-115 to Asp-120, Leu-128 to Asn-135.
895927	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6340 as residues: Asn-3 to Trp-18, Gly-30 to Ser-35, Pro-41 to Ser-51, Ser-132 to Tyr-143.
896008	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6341 as residues: Pro-5 to Thr-28, Val-65 to Gly-71, Thr-82 to Gly-96.
897234	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6342 as residues: Ala-1 to Asp-10, Leu-24 to Phe-30, Pro-36 to Ser-42.
897524	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6343 as residues: Thr-1 to Cys-24, Lys-26 to Ser-32, Gln-83 to Thr-91, Thr-131 to Gly-137, Lys-170 to Asp-177, Asp-190 to Pro-198.
897898	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6344 as residues: Pro-23 to Arg-31, Gln-79 to Gln-85, Cys-93 to Cys-107.
898087	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6345 as residues: Ser-49 to Asp-59, Arg-69 to Tyr-87.
898136	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6346 as residues: Ser-12 to Ser-19, Ala-47 to Lys-52, Arg-96 to His-105.
898192	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6348 as residues: His-9 to Ile-14, Tyr-58 to Phe-64, Thr-75 to Phe-81.
898355	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6349 as residues: Pro-5 to Gly-18, Pro-21 to Asn-31, Gln-38 to Glu-43, Arg-63 to Arg-78.
898427	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6351 as residues: Gly-6 to Ile-11, Pro-13 to Arg-38, Glu-68 to Lys-74, Asp-88 to Ser-93, Glu-122 to Gly-130, Glu-145 to Glu-150, Thr-156 to Asp-174, Glu-200 to Arg-208, Ala-226 to Leu-240.
898541	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6352 as residues: His-1 to Leu-11, Arg-37 to Ile-43, Gln-111 to Pro-120, Asp-133 to Asn-138, Arg-159 to Cys-165, Val-241 to Lys-265, Glu-326 to Tyr-331, Pro-365 to Asn-382, Asn-418 to Asp-430, Ala-434 to Ser-441, Tyr-479 to Gly-496, Pro-498 to Ser-505.
898651	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6353 as residues: Ser-6 to Pro-11, Pro-27 to Glu-32, Pro-65 to Trp-71, Val-208 to Pro-215, His-220 to Thr-225.
898946	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6355 as residues: Thr-4 to Arg-14, Glu-34 to Pro-46.
899130	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6356 as residues: Pro-10 to His-19, Leu-47 to Tyr-55, Phe-93 to Gly-105, Ser-220 to Trp-227, Phe-295 to Thr-301, Thr-309 to Trp-315, Arg-326 to Phe-334, Arg-458 to Pro-466.
899224	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6357 as residues: Ser-3 to Gly-28, Gly-46 to Pro-56, Gly-70 to Ile-92, Gln-102 to Ser-117, Ala-123 to Pro-129, Pro-135 to Leu-140, Pro-150 to Asp-158, Pro-165 to Pro-177, Gln-188 to Asp-205, Ile-230 to Arg-245, His-251 to Trp-260, Asp-262 to Cys-267, Asn-296 to Arg-307, Glu-322 to Pro-330, Ile-351 to Asn-357, Asp-363 to Leu-369, Glu-386 to Phe-391, Lys-415 to Ser-420.
899632	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6358 as residues: Thr-11 to Ser-16, Gly-25 to Asn-40.
899661	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6360 as residues: His-8 to Gly-18, Pro-35 to Trp-41, Arg-51 to Asp-64, Asp-69 to Gln-74, Gly-83 to Asn-96, Pro-107 to Lys-116, Glu-149 to Ser-171, Ile-177 to Ile-186.
899776	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6361 as residues: Met-36 to Arg-49, Pro-72 to Gly-82, Glu-89 to Gly-96, Tyr-129 to Thr-135.
899885	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6363 as residues: His-65 to Gly-74, Asp-85 to Ser-97, Leu-133 to Glu-138, Glu-144 to Asp-153, Arg-170 to Ser-175, Gly-184 to Arg-189, Gln-202 to Tyr-208.
899913	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6364 as residues: Lys-1 to Tyr-16.
900015	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6365 as residues: Lys-23 to His-36, Asp-52 to Leu-68.
900162	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6366 as residues: Gly-1 to Leu-9, Gly-48 to Gln-53, Cys-74 to Pro-79, Thr-118 to Val-128.
900555	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6368 as residues: His-8 to Gly-18, Cys-131 to Gly-136, Thr-198 to Asn-203, Pro-231 to Asp-236.
900696	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6369 as residues: Arg-11 to Ser-23, Arg-72 to Pro-84, Asp-90 to Ser-103, Gly-172 to Glu-179, Pro-190 to Phe-197, Val-210 to Arg-216, Pro-228 to Leu-233.
900777	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6370 as residues: Pro-5 to Arg-16, Thr-21 to Gly-27, Ser-35 to Gln-40, Arg-103 to Lys-112, Gly-172 to Pro-188, Gln-190 to Met-198.
900784	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6371 as residues: Gln-36 to Trp-52, Gly-164 to Gly-175, Ile-210 to Arg-215, Asn-417 to Val-422, Val-426 to Gln-431, Val-439 to Gly-444, Lys-470 to Leu-481, Phe-500 to Ser-511, Met-553 to Gly-563, Glu-691 to Thr-700, Ile-714 to Gly-723, Ala-750 to Gly-762, Leu-788 to

	Phe-794, Ser-798 to Gln-803, Thr-811 to Lys-816, Ser-824 to Phe-835, Thr-882 to Glu-892, Leu-901 to Gln-907, Gln-937 to Met-944.
900838	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6372 as residues: Pro-9 to Gly-15, Pro-47 to Pro-69, Pro-113 to Cys-122.
900966	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6374 as residues: Arg-34 to Gly-42, Gly-53 to Ser-59, Ala-74 to Gly-81, Glu-89 to Gly-103, Gly-108 to Gly-113, His-120 to Gly-223, Asp-225 to Gly-243, Pro-247 to Gly-312, Gly-317 to Asp-322.
901111	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6377 as residues: Pro-17 to Asp-36, Pro-102 to Glu-108, Pro-122 to Lys-128, His-150 to Gly-155, Asn-162 to Tyr-168, Pro-186 to Gln-193, Ser-205 to Pro-211, Gln-305 to Gly-317.
901128	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6379 as residues: Pro-1 to Gly-8, Pro-38 to Pro-45, Thr-103 to Ser-109, Cys-112 to Trp-119, Ala-201 to His-210, Glu-230 to Asn-241, Trp-263 to Ala-269.
901202	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6380 as residues: Pro-1 to Leu-17, Gly-36 to Gly-49.
901253	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6381 as residues: Gly-13 to Met-26, Arg-34 to Gly-39, Ile-60 to Ser-80, Ala-85 to Thr-98.
901276	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6382 as residues: Gln-1 to Arg-24, Gln-41 to Ala-48, Ser-70 to Gly-82, Glu-104 to Phe-112, Lys-126 to Ser-132, Pro-276 to Ile-281.
901333	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6383 as residues: Gln-48 to Lys-64, Glu-175 to Thr-183.
901375	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6384 as residues: Pro-3 to Lys-8, Phe-43 to Gly-51, Lys-55 to Ala-62, Ser-92 to Gln-98, Asp-106 to Trp-113, Ser-125 to Asn-134, Ser-150 to Phe-160.
901421	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6386 as residues: Arg-29 to Leu-38, Lys-47 to Arg-53, Asp-70 to Thr-75, Glu-116 to Leu-124, Gln-134 to Ser-143, Ser-158 to Trp-163, Pro-168 to Asp-180.
901472	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6387 as residues: Arg-1 to Val-7, Ala-156 to Phe-162.
901473	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6388 as residues: Leu-39 to Ile-47, Val-92 to Arg-98, Tyr-146 to Leu-160, Asp-185 to Phe-192, Phe-195 to Gly-207.
901494	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6389 as residues: Pro-11 to Trp-16, Gln-25 to Ser-37, Pro-99 to Gly-104, Pro-109 to Gly-115, Trp-201 to Thr-209.
901515	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6390 as residues: Gln-46 to Leu-51, Asp-58 to Asn-65, Lys-70 to Gln-75, Pro-111 to Thr-117, Gly-176 to Gly-185, Asp-205 to Gly-213, Thr-247 to Ile-263, Leu-269 to Lys-279.
901567	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6391 as residues: Phe-3 to Ala-8, Pro-17 to Gly-24, Asn-162 to Gln-179, Asn-195 to Asp-201, Glu-207 to Leu-213.

901578	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6392 as residues: Leu-1 to Glu-13, Ile-34 to Arg-40, Lys-46 to Arg-57, Ala-77 to Ile-88, Pro-103 to Asp-111, Phe-127 to Ser-138.
901621	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6393 as residues: Gln-7 to Gly-12, Leu-60 to Pro-65, Arg-85 to Lys-99, Ser-132 to Pro-145, Pro-150 to Asp-155, Pro-183 to Asn-193, Arg-200 to Tyr-206.
901875	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6394 as residues: Gly-13 to Met-26, Arg-34 to Gly-39, Ile-60 to Ser-80, Ala-85 to Thr-98, Asn-109 to Val-140, Lys-150 to Thr-157, Gly-174 to Ala-201, Thr-204 to Lys-212, Thr-237 to Gly-243, Pro-251 to Pro-261, Ala-263 to Lys-277, Phe-281 to Arg-286, Arg-333 to Asp-341, Glu-407 to Asp-412, Gly-424 to Gly-430, Gly-570 to Trp-583, Gln-614 to Gly-619.
HCRMU56 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6396 as residues: Leu-7 to Leu-13, Pro-15 to Gln-27.
HKCSA70R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6398 as residues: Leu-29 to Val-34, Gln-42 to Gly-52.
HWLOB10 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6399 as residues: Gly-49 to Pro-54.
HCQCG26R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6400 as residues: Gly-1 to Asp-6, Asp-16 to Ser-21, Val-36 to Cys-43, Ser-51 to Leu-60, Ile-65 to Lys-70.
HOENF69R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6404 as residues: Ala-15 to Ser-32, Ser-34 to Gly-43, Thr-57 to Gly-65.
HWLQY33 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6406 as residues: Gln-17 to Lys-22.
HCRNF08R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6407 as residues: Arg-1 to Arg-13, Asn-33 to Arg-39.
HKCSZ69R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6408 as residues: Thr-32 to Lys-37.
HCQAG23 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6409 as residues: Arg-22 to Thr-28.
H2LAF75R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6411 as residues: Gly-1 to Ser-6.
H2LAT73R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6413 as residues: Thr-3 to Ser-10.
HUUAQ45 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6422 as residues: Arg-13 to Asn-22, Lys-42 to Glu-48.
HWLWQ51 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6423 as residues: Ala-18 to Asn-24, Thr-65 to Arg-71, Val-84 to Thr-96.
HKLAB44R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6424 as residues: Val-7 to Trp-19, Ser-73 to Ser-79, Lys-86 to Ser-94.
H2CBA06R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6425 as residues: Ala-12 to Asp-20, Glu-30 to Arg-40, Gln-51 to Arg-57, Arg-79 to Tyr-88.

HCNAH60 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6427 as residues: Arg-19 to Gly-32.
HWMBJ68 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6432 as residues: Glu-10 to Gly-16, Asp-62 to Arg-69.
HELGR96R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6435 as residues: Leu-31 to Gln-39.
HCRQM72 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6437 as residues: Asn-5 to Lys-14, Glu-25 to Gly-33, Arg-48 to Thr-74.
HWLMH52 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6440 as residues: Glu-24 to Leu-30.
H2CBU03R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6441 as residues: Thr-2 to Ser-9.
HCQDR91R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6443 as residues: Gly-14 to Arg-19.
HWMBN34 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6444 as residues: Lys-7 to Thr-12, Pro-25 to Lys-30, Leu-38 to Asp-43, Ser-84 to Ala-95, Asp-108 to Ser-117.
HCRNF81R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6447 as residues: Pro-12 to His-17, Gln-57 to Asp-62, Thr-79 to Lys-101, Thr-117 to Ser-129.
HOHCI31R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6448 as residues: Leu-16 to Ser-22, Lys-24 to Glu-38.
HSKKC10R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6449 as residues: Glu-4 to Gly-10.
H2CBC52R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6452 as residues: Pro-18 to Ser-30, Pro-37 to Pro-43.
HWLMC24 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6454 as residues: Pro-4 to Gly-34.
HWLUR40 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6455 as residues: Phe-3 to Lys-12.
HHAOD46 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6457 as residues: Lys-23 to Ala-40, Pro-67 to Ala-72, Val-102 to Thr-110.
HCYBA83R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6458 as residues: Trp-13 to Ile-21, Pro-59 to Thr-68, Ala-85 to Lys-92, Thr-102 to Gly-113.
HCROZ77R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6459 as residues: Asp-1 to Arg-8, Lys-13 to Leu-18, Gly-32 to Glu-49, Lys-60 to Ala-75, Ser-84 to Asp-99, Glu-107 to Ser-119, Ala-132 to Gly-141.
HCQCP20R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6461 as residues: Leu-18 to Gln-25, Lys-37 to Phe-45.
HWLNF84 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6463 as residues: Lys-17 to Asn-22, Glu-31 to Lys-36, Gln-38 to Arg-44, Thr-81 to Thr-88.
HCRQI10R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6468 as residues: Asp-56 to Lys-63, Lys-78 to Asn-86, Phe-92 to Lys-99.

HULCD94R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6470 as residues: Lys-7 to Thr-13, Asp-24 to Thr-30, Gly-39 to Glu-52, Leu-70 to Arg-76, Phe-87 to Tyr-92.
HHMMF84 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6471 as residues: Lys-30 to His-37.
HCRPO08R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6472 as residues: Val-33 to Lys-38.
HWLMQ74 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6475 as residues: Pro-9 to Gly-21.
H2LAB80R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6478 as residues: Thr-14 to Val-32.
HCQDO33 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6480 as residues: Trp-10 to Gly-18, Arg-34 to Pro-39.
HKAFL06R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6482 as residues: Pro-1 to Gly-14, Cys-18 to Gly-24, Ala-39 to Arg-55, Gly-63 to Glu-76, Gln-106 to Arg-115.
HWLOO35 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6486 as residues: Gly-1 to Gly-7, Arg-13 to Glu-19.
HWLVL77 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6487 as residues: Arg-13 to Gly-40.
HBJMG15R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6489 as residues: Ser-14 to Glu-27, Ile-40 to Ile-54.
H2CBH29R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6490 as residues: Ser-16 to Glu-21.
H2LBB21R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6494 as residues: Phe-50 to Tyr-55, Thr-63 to Trp-69, Pro-74 to Arg-80.
H2LAT69R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6495 as residues: Thr-2 to Ser-11.
HLWCJ40R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6496 as residues: Tyr-28 to Pro-40.
HOGDQ57 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6498 as residues: Pro-1 to Gln-8, Met-20 to Leu-26, Gly-42 to Ser-49, Ile-63 to Pro-73, Gly-80 to Ala-87.
HWLQM12 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6499 as residues: Pro-45 to Gly-52.
H2CBG89R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6501 as residues: Met-2 to Asp-31, Leu-67 to Asp-74, Gly-93 to Ser-98.
HWLWQ68 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6502 as residues: Ser-21 to Glu-38.
HCYBM79 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6503 as residues: Glu-11 to Lys-22, Asp-31 to Trp-50.
HMUBO53 RA	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6504 as residues: Glu-1 to Asp-6, Asn-92 to Leu-97.
HWLVN81 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6506 as residues: Arg-6 to Val-14.
HWLRV71 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6507 as residues: Asp-34 to Pro-45.

HDPMJ48R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6511 as residues: Thr-1 to Trp-14, Lys-27 to Leu-44, Glu-59 to Arg-73, Lys-87 to Phe-95.
HWLNJ72R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6512 as residues: Ala-21 to Pro-30, Thr-43 to Glu-51.
HOFME52 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6513 as residues: Pro-7 to Phe-14, Glu-22 to Lys-28, Ala-31 to Glu-39, Lys-47 to Asp-54.
HCRMG55 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6515 as residues: Pro-4 to Gly-10, Lys-28 to Thr-37, Glu-45 to Glu-55.
HCRNZ49R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6516 as residues: Pro-1 to Ala-14.
H2LAD43R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6518 as residues: Gly-1 to Ser-6, Pro-20 to Trp-31.
HCQCB53R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6522 as residues: Pro-8 to Asn-18.
HCQCL32R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6525 as residues: Arg-3 to Asn-18.
HCQCP47R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6526 as residues: Thr-4 to Ser-11.
HCQDC76R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6527 as residues: Asp-1 to Lys-6, Lys-11 to Ser-17.
HCQDH59 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6528 as residues: Gly-1 to Gly-8.
HCQDK53 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6531 as residues: Gly-1 to Gly-8.
HCQDP62R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6535 as residues: Gly-1 to Gly-8.
HKCAA76 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6543 as residues: Ser-31 to Tyr-36, Pro-64 to Gly-72.
HCRNF45R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6546 as residues: Pro-8 to Glu-13, Pro-27 to Pro-33.
HCROB90R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6555 as residues: Arg-63 to Gly-69.
HCRNI50R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6556 as residues: Ser-15 to Ile-24, Asn-56 to Lys-67, Ser-80 to Lys-95.
HCRPJ34R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6557 as residues: Val-5 to Gln-11.
HCQBL95R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6558 as residues: Ser-4 to Pro-10, Glu-18 to Cys-23.
HWLOR95 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6559 as residues: Ser-23 to Ala-28, Pro-64 to Glu-74, Ala-100 to Lys-106.
HKCSI32R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6560 as residues: Ala-4 to Gln-14, Gly-36 to Gln-42, Gly-70 to Leu-77.
HBCJN86R	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6565 as residues: Pro-6 to Tyr-17, Val-39 to Gln-45.
HWLMZ47 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6567 as residues: Ile-45 to Gly-50.
HCRPD88R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6569 as residues: Asn-15 to Phe-27, His-39 to Ser-44, Glu-49 to Ala-55.
HCQDC47R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6571 as residues: Asp-1 to Asn-7, Pro-22 to Ser-28, Leu-54 to Asn-59, Gly-95 to Arg-101.
H2CBR33R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6573 as residues: Ile-2 to Leu-8.
HWLXV36 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6574 as residues: Lys-14 to Gln-24, Pro-32 to Ile-40.
HWLRE24 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6575 as residues: Lys-20 to Gly-38, Val-42 to Thr-53, Ala-88 to Ala-99.
HWMB A27 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6576 as residues: Gly-35 to Glu-62.
HWMBK08 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6577 as residues: Asp-2 to Cys-8.
HCQCT96R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6582 as residues: Pro-1 to Glu-14.
HWLXR95 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6584 as residues: Lys-22 to Ser-33, Ala-39 to Glu-48, Lys-70 to Lys-75.
HEPAD45R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6586 as residues: Met-42 to Arg-53.
HCRNP41R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6587 as residues: Arg-25 to Asn-34, Lys-54 to Glu-60.
HCYBK83. R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6588 as residues: Pro-1 to Ser-6.
HCRND59R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6589 as residues: Phe-88 to Pro-93, Thr-102 to Pro-113.
HCRMA15 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6592 as residues: Gly-4 to Lys-10, Gln-36 to Glu-41.
HCRMJ42R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6593 as residues: Gly-4 to Lys-10, Gln-36 to Glu-41.
HCRMO88 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6595 as residues: Gly-4 to Lys-10, Gln-36 to Glu-41, Phe-57 to Asn-62.
HCRNB87R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6596 as residues: Arg-17 to His-22.
HCRNL44R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6598 as residues: Ser-2 to Ala-7.
HCRPK46R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6603 as residues: Tyr-3 to Gly-10, Ala-17 to Tyr-24.
HCRPK48R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6604 as residues: Asn-1 to Arg-9.
HCRQG02R	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6606 as residues: Tyr-1 to Gly-14.
HCRQM26 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6607 as residues: Tyr-1 to Gly-16.
HHMMA34 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6609 as residues: Gly-4 to Leu-11.
HHMMA44 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6610 as residues: Gly-4 to Lys-10, Gln-36 to Glu-41.
HHMMC42 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6611 as residues: Gly-4 to Lys-10.
HHMMC86 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6612 as residues: Gly-4 to Lys-10, Gln-36 to Pro-43.
HHMME38 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6614 as residues: Gly-4 to Lys-10, Gln-36 to Lys-43.
HHMME80 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6618 as residues: Gly-4 to Lys-10, Gln-36 to Lys-43.
HHMMF79 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6620 as residues: Val-2 to Gly-9.
HOCTA39R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6621 as residues: Lys-7 to Lys-19.
HULCG37R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6623 as residues: Ile-2 to Ser-15, Gln-30 to Asp-38.
HWLMQ27 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6629 as residues: Pro-16 to Tyr-23.
HWLMQ65 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6632 as residues: Gln-37 to Arg-42.
HWLNZ20 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6634 as residues: Pro-12 to Glu-21.
HWLNZ35 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6635 as residues: Pro-16 to Gly-35.
HWLNZ44 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6636 as residues: Pro-13 to Glu-22.
HWLOW58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6639 as residues: Gly-4 to Lys-10.
HWMB518 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6653 as residues: Pro-10 to Trp-21.
HCRPY45R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6662 as residues: Lys-7 to Lys-20, Gln-46 to Glu-51.
HHMMF44 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6667 as residues: Gly-8 to Leu-15, Gln-40 to Lys-48.
HTWEL13 RA	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6668 as residues: Cys-6 to Ser-12.
HCRMH46 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6674 as residues: Gln-19 to Glu-24.
HWLND45 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6676 as residues: Gly-4 to Lys-11.
HWLWG95 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6677 as residues: Arg-21 to Arg-36.
HCRQO33R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6679 as residues: Pro-6 to Asp-21.

HCRMJ70R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6682 as residues: Leu-18 to Asp-41.
HWLMM72 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6683 as residues: Asp-42 to Asn-47.
HCRMD32 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6684 as residues: Ala-17 to Lys-28, Glu-51 to Gln-56, Ser-64 to Lys-72.
HKAHM80 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6688 as residues: Lys-10 to Ala-17, Glu-27 to Leu-37, Met-74 to Lys-80, Pro-94 to Gln-108.
H2CBM60R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6689 as residues: His-23 to Arg-30, Asp-61 to Asn-73, Phe-89 to Gln-97.
HWLXR73 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6692 as residues: Arg-1 to Pro-11, Gly-16 to Gly-21, Gly-28 to Gly-43.
HWLOI59R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6693 as residues: Val-9 to Leu-20, Lys-44 to Pro-51.
HWLUX53 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6694 as residues: Gly-1 to Glu-10.
HARMO20 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6696 as residues: Arg-2 to Val-18.
HCQDM81 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6699 as residues: Arg-2 to Val-18.
HFIJB15R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6703 as residues: Pro-26 to Gln-32.
HACCH14R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6704 as residues: Thr-1 to Tyr-7.
HCRPV08R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6708 as residues: Val-26 to Val-33, Phe-41 to Ser-55, Val-62 to Gly-72.
HWMBB77 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6709 as residues: Gln-7 to Leu-17, Lys-110 to Cys-116, Asn-133 to Asn-138.
HHEPL48R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6710 as residues: Thr-2 to Met-11, Cys-15 to Pro-20, Asp-28 to Ser-33, Lys-40 to Gly-45.
HCRPT53R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6711 as residues: Tyr-9 to Phe-14, Glu-30 to Lys-39.
HTXJU67R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6714 as residues: Ile-10 to Gln-15, Pro-22 to Asn-28.
HWMCCL33 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6715 as residues: Ala-83 to Ala-88.
HCQCO67R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6717 as residues: Cys-15 to Ser-30, Ser-39 to Met-45.
HWLVI33R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6719 as residues: Arg-32 to Gly-38.
HWMBAA55 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6720 as residues: Thr-1 to Gln-7, Thr-26 to Leu-36, Ala-86 to

	Asp-104, Ser-114 to Val-121.
HCRON89R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6725 as residues: Ala-15 to Gly-22.
HLDDP53R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6727 as residues: Ala-25 to Asp-32.
HWLME23 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6728 as residues: Ala-9 to Arg-15.
HWLVP88 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6729 as residues: Arg-21 to Ser-28, Gly-115 to Gln-142.
HWLMG29 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6739 as residues: Ser-16 to Lys-21, Pro-34 to Lys-41.
HCQCF55R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6740 as residues: Arg-1 to Arg-26, Ser-42 to Tyr-50, Glu-60 to Cys-69.
HWLWB88 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6742 as residues: Pro-6 to Glu-13.
HWLXR58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6747 as residues: Glu-4 to Asp-12, Glu-19 to Lys-29, Ser-32 to Glu-40, Glu-51 to Thr-56, Ile-58 to Ser-79, Ser-86 to Glu-95.
HCYBO60R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6750 as residues: His-8 to Gly-18, Gly-26 to Pro-35, Pro-58 to Asp-64.
HE2BG62R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6751 as residues: Phe-10 to Tyr-15.
HCRMW12 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6752 as residues: Gly-21 to Asn-31, Cys-62 to Lys-68, Pro-76 to Thr-81, Cys-105 to Arg-124, Lys-139 to Gln-145, Gly-151 to Gly-158.
HWLVF61 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6755 as residues: Tyr-12 to Ile-17, Pro-28 to Asn-33, Arg-45 to Asp-53.
HWMBP47 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6757 as residues: Val-1 to Val-10.
HWLQF89 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6760 as residues: Pro-8 to Pro-25, Asp-72 to Thr-78, Glu-81 to Ser-87.
HWMCC54 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6763 as residues: Gln-66 to Ser-71, Ser-80 to Gly-92.
HCQAS76R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6767 as residues: Thr-34 to Ser-40.
HKLRA71R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6768 as residues: Ile-1 to Ser-9.
HWMCJ58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6769 as residues: Pro-10 to Arg-18.
HWLMJ20 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6770 as residues: Pro-56 to Trp-61.
HWLMU79 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6773 as residues: Trp-4 to Lys-11.
HWLNN06	Preferred epitopes include those comprising a sequence shown in SEQ

R	ID NO. 6775 as residues: Gln-27 to Ser-32, Trp-57 to Ser-65, Glu-72 to Ser-85, Lys-103 to Ser-117.
HWLMM42 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6776 as residues: Asn-43 to His-64.
HWMBC38 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6777 as residues: His-61 to Gly-68.
HWLVU11 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6778 as residues: Val-65 to Thr-74, Ser-84 to Asn-101.
HCQDW90 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6785 as residues: Arg-18 to Ser-24.
HCYBM34 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6786 as residues: Arg-22 to Ser-28.
HCYBM57 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6787 as residues: Arg-31 to Thr-38.
HCQCK49 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6789 as residues: Phe-14 to Ser-22.
HWLRQ41 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6792 as residues: Lys-13 to Asp-24.
HWLOC77 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6793 as residues: Phe-47 to Ser-52.
HDDNQ21 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6794 as residues: Tyr-6 to Gly-13, Asn-35 to Thr-42, Pro-47 to Glu-56.
HCQDA89 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6796 as residues: Leu-7 to Arg-13.
HCQCO43R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6797 as residues: Asp-18 to Arg-29.
HCQCG73R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6798 as residues: Lys-12 to Asn-18, Glu-24 to Glu-31, Ile-40 to Ala-53, Pro-65 to Asp-75.
HWLQA92 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6799 as residues: Arg-10 to Ser-18, Pro-27 to Lys-36.
HCROM41 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6802 as residues: Ser-1 to Arg-9, Thr-40 to Trp-47, Ser-84 to Asp-95, Leu-113 to Asn-127, Pro-140 to Arg-151.
H2LAA02R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6803 as residues: Ala-11 to Pro-20, Asn-39 to Val-46.
HCQDU29 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6805 as residues: Val-1 to Met-8.
HWMBJ73 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6811 as residues: Arg-41 to Glu-46.
HCRNO44R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6814 as residues: Lys-1 to Thr-6.
HSAMD89 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6818 as residues: Leu-32 to Glu-59, Lys-67 to Lys-89.
HCROE42R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6820 as residues: Phe-48 to Gly-56, Ile-60 to Glu-65, Pro-73 to Trp-80, Ser-100 to Lys-117, Lys-126 to Ser-138.
HCROE77R	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 6824 as residues: Asp-46 to Lys-51.
HOCTA19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6827 as residues: Ser-3 to Ala-12, Gly-71 to Val-84.
HWLOM88 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6829 as residues: Glu-11 to Cys-17, Ala-26 to Trp-31, Ser-43 to Glu-55, Gly-127 to Ala-132.
H2CBI14R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6830 as residues: Lys-21 to Lys-29.
HCRNI08R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6831 as residues: Glu-10 to Val-16, Thr-59 to Ser-66, Asp-112 to Ala-121, Pro-147 to Ala-157.
HFPBS29R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6832 as residues: Pro-22 to His-30.
HCQCB43R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6834 as residues: Asn-4 to Tyr-9.
HCQDB27R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6836 as residues: Asn-4 to Tyr-9.
HCQCR82R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6838 as residues: Glu-9 to Gly-17.
HWLWH33 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6842 as residues: Arg-10 to Arg-15, Val-25 to Gly-33, Pro-45 to Asp-51.
HCYBJ83R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6843 as residues: Arg-1 to Gly-6, Arg-60 to Gly-65.
HWLRE17 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6844 as residues: Gln-34 to Gly-46, Gly-54 to Arg-61, Pro-67 to Gly-82, Glu-91 to Asn-114.
HWLOM10 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6846 as residues: Glu-1 to Arg-11, Thr-18 to Ser-39, Ala-51 to Leu-56, Pro-69 to Gly-78, Glu-88 to Ala-93, Pro-114 to Lys-126, Leu-133 to Thr-141.
H2LBA48R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6848 as residues: Thr-13 to Thr-23.
HCRPZ16R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6849 as residues: Ala-14 to Cys-32, Lys-34 to Arg-40, Ser-46 to Trp-52, Arg-59 to Gly-64.
HKCSA80R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6850 as residues: Asn-39 to Gln-44.
HCRPH64R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6852 as residues: Arg-38 to Ser-46.
HDTBZ03R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6853 as residues: Lys-1 to Gly-28, Thr-50 to Leu-57, Glu-70 to Trp-90, Pro-93 to Asp-100.
HLYED39R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6854 as residues: Arg-2 to Thr-9.
HCQCB85R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6855 as residues: Gly-9 to Ser-14, Gln-26 to Gly-37.
HCRNF48R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6858 as residues: Glu-29 to Leu-34, Thr-40 to Pro-45, Ser-68 to

	Met-73.
HWLQA11 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6860 as residues: His-60 to Cys-69.
HWLXJ34R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6863 as residues: Arg-13 to Leu-22, Ser-25 to Glu-30, Leu-32 to Ala-43, Thr-49 to Pro-55, Ala-69 to Tyr-76, Pro-83 to Ser-91, Glu-104 to Ser-115.
HCRQN67R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6865 as residues: Lys-1 to Ser-12, Arg-20 to Gln-25, Pro-80 to Arg-86.
HCYBH30R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6866 as residues: Thr-19 to Lys-27.
HCROE26R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6869 as residues: Arg-25 to Val-33, Ser-43 to Gly-48, Ala-54 to Gly-59.
HOHBE57R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6870 as residues: Asp-1 to Gln-14, Thr-34 to Pro-40, Asn-42 to Asp-57, Ala-112 to Gly-117.
HWMBB94 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6872 as residues: Ser-53 to Val-62.
HUVHA17 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6873 as residues: Glu-34 to Thr-41.
HLTIJ91R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6874 as residues: Glu-11 to Leu-21, Glu-42 to Gln-50.
HCRMC40 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6875 as residues: Arg-37 to Val-48.
HWLQD31 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6878 as residues: Ala-37 to Lys-42, Pro-55 to Asp-62.
HOSBE19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6880 as residues: Asp-25 to Ile-31.
HWLQG37 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6882 as residues: Ala-10 to Lys-16, Lys-19 to Val-27.
HSAMB82 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6883 as residues: Gln-1 to Arg-11.
HWLWE05 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6884 as residues: Thr-5 to Thr-14.
HFVKA92R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6893 as residues: Asp-28 to Arg-34.
HKLSA82R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6894 as residues: Phe-1 to Glu-12, Gln-21 to Asp-28, Asp-30 to Pro-35.
HWLNK27 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6896 as residues: Gln-2 to Trp-8.
HCRNT24R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6897 as residues: Arg-13 to Thr-21, Ser-43 to Ala-49.
HCQAW95 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6898 as residues: Thr-2 to Lys-7, Lys-12 to Pro-21.
HFCE53R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6902 as residues: Thr-12 to Leu-18.

HCQCQ84R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6903 as residues: Gly-1 to Ala-10.
HWMBC92 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6905 as residues: Leu-49 to Asn-62, Pro-65 to Leu-84.
HWLQQ35 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6908 as residues: Arg-6 to Ala-19, Asn-26 to Thr-50, Phe-57 to Ser-62, Asp-68 to Glu-96, Ser-102 to Gly-137.
HCRNZ02R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6911 as residues: Asn-1 to Lys-9, Cys-51 to Ala-65, Thr-74 to Arg-86.
HCQDW65 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6916 as residues: Lys-19 to Ser-27.
HCQDN27 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6918 as residues: Glu-6 to Gln-21.
HCQCI92R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6919 as residues: Pro-19 to Lys-40.
HCR0T79R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6922 as residues: Gly-12 to Glu-18.
H2CAA07R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6923 as residues: Glu-8 to Ala-16, Tyr-25 to Trp-32.
H2LAD20R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6924 as residues: Ser-1 to Leu-6, Ser-22 to Leu-31.
HWLQZ32 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6925 as residues: Pro-1 to Leu-7, Gly-49 to Gly-69, Glu-100 to Ala-106.
HCRQK79 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6929 as residues: Lys-7 to Gly-14, Ala-31 to Gly-37.
HCQAD53 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6930 as residues: Thr-1 to Thr-13.
HKCUD58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6931 as residues: Ser-21 to Cys-28.
HCRNR93R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6932 as residues: Lys-54 to Leu-64.
HWLQH13 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6933 as residues: Asp-12 to Ser-19, Leu-52 to Gln-57, Leu-79 to Glu-86, Asn-97 to Phe-109, Gln-134 to Asn-142, Arg-151 to Gly-156.
H2CBQ60R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6934 as residues: Ala-23 to Asp-32, Thr-42 to Gly-47, Pro-59 to Glu-67, Phe-77 to Ser-84.
H2LAW43 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6935 as residues: Thr-3 to Ser-12.
HWLVJ22R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6936 as residues: Gln-7 to Ser-23, Pro-63 to Lys-86.
H2CAA28R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6938 as residues: Glu-17 to Cys-22.
H2CAA36R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6939 as residues: Asp-1 to Arg-9.
H2CBG84R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6941 as residues: Gly-13 to Leu-20.

H2CBJ35R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6942 as residues: Val-3 to Ala-11, Ala-38 to Leu-51, Ser-53 to Pro-70, Gln-88 to Gly-94, Ser-106 to Ser-113.
H2CBK71R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6944 as residues: Pro-18 to Pro-24, Arg-31 to Thr-41.
H2CBN87R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6945 as residues: Asp-1 to Ser-6.
H2CBP73R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6946 as residues: Ala-2 to Ser-9, Pro-40 to Gly-54.
H2CBS94R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6947 as residues: Gly-39 to Gln-45.
H2CBV81R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6949 as residues: Arg-1 to Trp-8.
H2CBW73 RB	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6950 as residues: Trp-1 to Ser-8, Pro-17 to Glu-27, Gln-41 to Val-54, Asp-65 to Pro-76.
H2LAZ29R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6953 as residues: Asp-8 to Gly-18, Ala-21 to Arg-26, Glu-31 to Lys-36, Ser-61 to Gly-66.
H2LAZ92R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6954 as residues: His-10 to Phe-16, Thr-64 to Arg-79.
H2LBB20R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6956 as residues: Pro-17 to Arg-29, Gly-49 to Ala-62, Gly-70 to Lys-81.
HBAHC91R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6960 as residues: Gln-21 to Ala-27.
HCEOM04 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6962 as residues: Thr-2 to Lys-11.
HCFOE14R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6963 as residues: Glu-20 to Tyr-25, Phe-43 to Glu-48.
HCHOX67 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6964 as residues: Ser-16 to His-21, Ala-29 to Thr-35.
HCQAB27R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6965 as residues: Lys-1 to Val-13.
HCQAB44R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6968 as residues: Thr-19 to Thr-31.
HCQAB53R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6969 as residues: Ile-34 to His-39.
HCQAC03R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6970 as residues: Ser-51 to Gly-60.
HCQAD62 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6976 as residues: Ala-1 to Val-8, Arg-24 to Gly-36.
HCQAE39R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6981 as residues: Thr-3 to Arg-19.
HCQAG32 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6986 as residues: Arg-1 to Tyr-6.
HCQAI15R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6994 as residues: Gly-1 to Ala-8.
HCQAK16	Preferred epitopes include those comprising a sequence shown in SEQ

R	ID NO. 6998 as residues: Gly-1 to Ser-9.
HCQAK17 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 6999 as residues: Ala-1 to Arg-7.
HCQAL71R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7001 as residues: Val-2 to His-12.
HCQAM57 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7004 as residues: Arg-1 to Thr-8.
HCQAN95 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7012 as residues: Phe-11 to Ser-17, Leu-42 to Gly-47.
HCQAR63R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7016 as residues: Thr-5 to Arg-11.
HCQAS25R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7019 as residues: His-4 to His-10.
HCQAT12R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7025 as residues: Trp-2 to Gly-9.
HCQAV66 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7032 as residues: Gly-1 to Ser-8.
HCQAW40 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7036 as residues: His-1 to Ile-26, Leu-30 to Ser-37, Ala-59 to Leu-66.
HCQBA47R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7038 as residues: Ser-8 to Arg-14.
HCQBE19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7043 as residues: Glu-25 to Ser-30.
HCQBL61R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7049 as residues: Arg-38 to Asn-43.
HCQBM58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7052 as residues: Gln-7 to Glu-16.
HCQCC50R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7067 as residues: Arg-1 to Gly-8, Pro-11 to Asn-21, Gln-28 to Lys-36.
HCQCD10R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7072 as residues: Ser-33 to Tyr-42, Val-51 to Ser-56.
HCQCD46R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7073 as residues: Arg-14 to Thr-21.
HCQCE46R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7079 as residues: Ala-2 to Asp-10.
HCQCE83R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7085 as residues: Arg-14 to Thr-20.
HCQCF77R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7092 as residues: Lys-8 to Asn-19.
HCQCH16R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7104 as residues: Leu-31 to Thr-37, Gly-54 to Glu-61.
HCQCH47R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7108 as residues: Pro-13 to Glu-18.
HCQCJ42R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7126 as residues: Glu-1 to Gly-13.
HCQCJ51R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7129 as residues: Pro-8 to Asn-18, Gln-25 to Val-30.

HCQCJ77R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7132 as residues: Asn-1 to Thr-6.
HCQCJ89R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7134 as residues: Phe-16 to Asn-27.
HCQCK81 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7145 as residues: Glu-15 to Glu-20.
HCQCK90 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7146 as residues: Pro-2 to Thr-10.
HCQCL01R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7147 as residues: Ser-10 to Gly-15.
HCQCL05R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7148 as residues: Thr-24 to Thr-33.
HCQCL14R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7151 as residues: Arg-3 to Gly-13.
HCQCL48R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7159 as residues: Ala-1 to Thr-13.
HCQCL51R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7160 as residues: Pro-9 to Asn-19.
HCQCL55R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7162 as residues: Pro-8 to Asn-18.
HCQCL65R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7165 as residues: Lys-1 to Gly-6, Glu-8 to Arg-13.
HCQCL78R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7169 as residues: Lys-15 to Asn-23.
HCQCL79R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7170 as residues: Pro-1 to Pro-8, Pro-17 to Asp-44.
HCQCO30R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7174 as residues: Ala-17 to Asn-28.
HCQCO53R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7175 as residues: Asn-1 to Gly-11, Gly-16 to Arg-22.
HCQCO66R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7177 as residues: Phe-2 to Asn-11.
HCQCO79R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7178 as residues: Arg-1 to Arg-7.
HCQCP19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7183 as residues: Arg-8 to Met-13, Leu-16 to Leu-24.
HCQCP30R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7186 as residues: Lys-1 to His-7.
HCQCP89R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7193 as residues: Leu-42 to Ser-47.
HCQCR44R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7198 as residues: Lys-34 to Asn-40.
HCQCT38R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7200 as residues: Arg-18 to Arg-26.
HCQCU08R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7204 as residues: Lys-3 to Trp-8.
HCQCU57R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7208 as residues: Lys-1 to Lys-10.
HCQCU67R	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 7210 as residues: Phe-5 to Leu-13.
HCQCV50 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7215 as residues: Thr-8 to Lys-14, Glu-38 to Thr-50, Arg-56 to Asp-62.
HCQCV91 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7218 as residues: Lys-1 to Phe-11.
HCQCX90 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7225 as residues: Leu-5 to Tyr-11.
HCQDA28 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7228 as residues: Glu-48 to Lys-57.
HCQDA36 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7229 as residues: Met-6 to Ser-14, Ser-24 to Lys-29.
HCQDA66 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7232 as residues: Ala-10 to Thr-15, Arg-20 to Glu-34.
HCQDB17R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7234 as residues: Ala-2 to Gly-15, Cys-20 to Asn-29, Gln-35 to Lys-41, Phe-47 to Lys-59.
HCQDB41R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7237 as residues: Gly-1 to Ala-8.
HCQDB49R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7239 as residues: Phe-8 to Gly-13, Pro-16 to Asn-26, Gln-33 to Thr-38.
HCQDB52R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7240 as residues: Leu-13 to Ser-20.
HCQDB54R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7241 as residues: Pro-5 to Trp-17.
HCQDC12R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7245 as residues: Glu-8 to Asn-13, Arg-16 to Ala-28.
HCQDD35 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7255 as residues: Asn-26 to Tyr-32.
HCQDE68R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7269 as residues: Pro-8 to Asn-18, Leu-27 to Cys-33.
HCQDF44R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7271 as residues: Ser-6 to Val-15.
HCQDF69R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7274 as residues: Ser-19 to Arg-25.
HCQDG40 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7278 as residues: Asn-2 to Val-8, Phe-25 to Leu-30.
HCQDG71 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7280 as residues: Lys-8 to Phe-13.
HCQDG80 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7281 as residues: Ser-4 to Tyr-10.
HCQDH18 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7283 as residues: Asn-31 to Ser-37.
HCQDH60 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7288 as residues: Pro-9 to Asn-19, Gln-26 to Ser-34.
HCQDJ22R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7306 as residues: Gly-9 to Asn-14.
HCQDK50	Preferred epitopes include those comprising a sequence shown in SEQ

R	ID NO. 7320 as residues: Lys-38 to Asp-43.
HCQDK58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7322 as residues: Lys-1 to Trp-6.
HCQDL36R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7327 as residues: Arg-12 to Ser-20.
HCQDL57R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7331 as residues: Ser-25 to Asp-32.
HCQDL96R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7333 as residues: Ser-8 to Ala-18.
HCQDM58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7338 as residues: Phe-5 to Ala-10.
HCQDN78 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7342 as residues: Asn-1 to Gly-6, Pro-9 to Ser-14.
HCQDP14R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7351 as residues: Gly-1 to Tyr-13.
HCQDQ80 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7359 as residues: Pro-34 to Ser-40.
HCQDS61R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7372 as residues: Ile-17 to Val-24.
HCQDU60 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7387 as residues: Pro-9 to Asn-19.
HCQDU94 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7390 as residues: Pro-7 to His-19.
HCQDV44 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7393 as residues: Thr-19 to Thr-26, Ala-38 to Arg-43.
HCRMB19 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7419 as residues: His-23 to Gln-29.
HCRMB44 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7420 as residues: Ser-1 to Ser-8.
HCRMB82 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7422 as residues: Pro-1 to Ser-9.
HCRMD33 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7429 as residues: Pro-14 to Asn-21, Pro-23 to Asn-34.
HCRMD57 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7430 as residues: Arg-14 to Ser-30.
HCRMD77 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7431 as residues: Asn-4 to Asn-10.
HCRMF07 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7436 as residues: Arg-1 to Gly-10, Glu-16 to Gln-21.
HCRMF33 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7439 as residues: Pro-3 to Thr-8.
HCRMF93 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7447 as residues: Leu-2 to Arg-9, Glu-23 to His-34.
HCRMG20 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7449 as residues: Ser-15 to His-22.
HCRMI33R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7457 as residues: Phe-4 to Ala-10.
HCRMI60R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7460 as residues: Glu-21 to Gly-41, Ala-75 to Gly-80.

HCRMJ54R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7463 as residues: Pro-13 to Phe-23.
HCRMJ81R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7465 as residues: Phe-15 to Phe-24, Asn-63 to Ala-69, Leu-80 to Pro-85.
HCRMP32 RA	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7472 as residues: Arg-5 to Glu-14, Arg-31 to Gly-36.
HCRMS48 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7477 as residues: Arg-42 to Lys-50.
HCRMT03 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7480 as residues: Phe-5 to Ser-13.
HCRMU21 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7483 as residues: Ser-20 to Glu-28.
HCRMW62 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7497 as residues: Cys-53 to Ser-60.
HCRMY29 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7502 as residues: Arg-1 to Thr-6.
HCRMZ36 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7505 as residues: Pro-7 to Ser-27.
HCRMZ71 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7507 as residues: Gly-1 to Cys-7, Thr-33 to Lys-38.
HCRMZ92 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7508 as residues: Gly-45 to Ile-56.
HCRNB85R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7519 as residues: His-1 to Arg-9.
HCRNC23R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7520 as residues: Lys-3 to Arg-11, Pro-19 to Gly-24, Ser-74 to Trp-79.
HCRNE15R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7527 as residues: Arg-7 to Ser-12.
HCRNE60R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7532 as residues: Glu-1 to Ser-11.
HCRNF01R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7533 as residues: Gly-46 to Thr-52.
HCRNH02R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7538 as residues: Asn-46 to Gly-57.
HCRNI71R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7540 as residues: Lys-1 to Trp-10.
HCRNJ25R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7541 as residues: Asp-10 to His-16, Arg-24 to Trp-29, Lys-40 to Phe-46, Leu-83 to Trp-90, Pro-92 to His-97.
HCRNK40 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7543 as residues: Ile-49 to Asn-55, Ser-69 to His-79.
HCRNK94 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7544 as residues: Met-34 to Pro-48.
HCRNL38R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7546 as residues: Ser-11 to Ser-16, Ala-52 to Glu-60.
HCRNL55R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7548 as residues: Thr-7 to Thr-15.

HCRNM50 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7553 as residues: Ser-18 to Asn-26.
HCRNO49R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7559 as residues: Gly-24 to Arg-36, Pro-57 to Arg-65.
HCRNV70 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7571 as residues: Asn-1 to Lys-6, Ser-14 to Gly-26.
HCRNW29 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7573 as residues: Gly-23 to Ser-28.
HCRNX03 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7577 as residues: Arg-1 to Glu-9.
HCRNZ22R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7581 as residues: Leu-24 to Asp-32.
HCROE81R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7592 as residues: Gly-1 to Thr-8.
HCROE89R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7593 as residues: Gly-13 to His-18.
HCROF67R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7595 as residues: Lys-1 to Asn-19, Thr-61 to Ala-68.
HCROG58R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7599 as residues: Pro-44 to Gly-49.
HCROG62R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7600 as residues: Ser-19 to Pro-26.
HCROH29R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7602 as residues: Thr-34 to Ser-40, Arg-102 to Trp-109.
HCROJ88R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7613 as residues: Arg-26 to Gly-33, Arg-39 to Arg-60.
HCROK42 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7619 as residues: Arg-20 to Met-28.
HCROK47 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7620 as residues: Arg-8 to Pro-13.
HCROM53 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7631 as residues: Val-11 to Gln-17, Pro-41 to Thr-47, Arg-66 to Glu-75.
HCROM56 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7632 as residues: Arg-12 to Asn-17, Cys-26 to Gln-36.
HCRON01R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7636 as residues: Asp-4 to Thr-10.
HCRON04R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7637 as residues: Thr-1 to Pro-9.
HCRON70R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7641 as residues: Gly-1 to Arg-12.
HCROO46R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7643 as residues: Gln-47 to Ser-58.
HCROQ92R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7653 as residues: Ser-16 to Ser-28.
HCROK76R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7656 as residues: Ser-6 to Gly-11.
HCROS08R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7658 as residues: Asn-23 to Asn-29.

HCROT15R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7662 as residues: Pro-26 to Lys-39, Asn-42 to Asn-49.
HCROT84R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7666 as residues: Pro-22 to Gly-28, Gly-37 to Lys-44.
HCROW69R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7674 as residues: Arg-1 to Gly-8, Leu-19 to Pro-25.
HCROX18R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7676 as residues: Gly-1 to Arg-9.
HCROX38R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7678 as residues: Gly-3 to Val-9.
HCROZ45R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7683 as residues: Thr-1 to Gln-9, Thr-19 to Ser-31, Pro-36 to Glu-42, Leu-53 to Ala-63, Asn-92 to Gly-98, Leu-124 to Leu-131.
HCRPA19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7689 as residues: Phe-62 to His-68.
HCRPA91R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7692 as residues: Gln-15 to Asn-26.
HCRPC30R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7695 as residues: Val-1 to Gly-6.
HCRPC56R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7698 as residues: Arg-1 to Glu-11, Val-27 to Val-35.
HCRPC58R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7699 as residues: Ala-4 to Thr-9.
HCRPE32R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7705 as residues: Asp-1 to Asp-18, Ser-41 to Arg-52.
HCRPE74R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7706 as residues: Met-6 to Gln-17.
HCRPF62R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7708 as residues: Cys-16 to Lys-33.
HCRPG28R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7715 as residues: Pro-26 to Ser-32.
HCRPG37R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7716 as residues: Arg-3 to Arg-9.
HCRPH31R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7719 as residues: Pro-35 to Gly-40.
HCRPH50R A	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7720 as residues: Pro-2 to His-8.
HCRPH58R A	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7721 as residues: Arg-14 to Val-19.
HCRPJ68R A	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7727 as residues: Trp-29 to Asn-42.
HCRPL63R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7733 as residues: Ser-10 to Leu-21, Phe-31 to Lys-36, Ala-54 to Leu-67.
HCRPL79R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7734 as residues: Arg-1 to Leu-6.
HCRPM51 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7737 as residues: Gly-14 to Thr-19, Gly-42 to Trp-48, Asp-63 to Ala-71.

HCRPN29R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7740 as residues: Lys-7 to Cys-12.
HCRPN49R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7742 as residues: Ser-6 to Thr-11, Pro-14 to His-28, Pro-34 to Asp-42, Pro-51 to Thr-60.
HCRPN73R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7743 as residues: Asn-16 to Ala-21.
HCRPO31R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7746 as residues: Gly-25 to Arg-30.
HCRPQ72R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7754 as residues: Pro-12 to Ser-17, Trp-30 to Ala-35, Gln-49 to Gln-55.
HCRPR62R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7757 as residues: Cys-14 to His-20.
HCRPR70R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7758 as residues: Arg-16 to His-24.
HCRPR91R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7759 as residues: Tyr-1 to Ile-6, Gln-16 to Asp-24.
HCRPT82R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7767 as residues: Lys-1 to Lys-7.
HCRPU09R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7769 as residues: Phe-20 to Thr-25.
HCRPV91R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7775 as residues: Glu-19 to Ala-31, Glu-52 to Thr-82, Leu-104 to Gln-110, Arg-125 to Arg-130.
HCRPX71R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7779 as residues: Pro-5 to Ala-11.
HCRPY01R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7780 as residues: Glu-1 to Gly-10, Ala-23 to Phe-33, Gln-59 to Ser-64.
HCRPY91R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7782 as residues: His-9 to Thr-17, Thr-25 to His-31.
HCRQB75R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7785 as residues: Arg-11 to Gly-23.
HCRQC36R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7786 as residues: Arg-53 to Arg-60.
HCRQD29R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7788 as residues: Pro-7 to Ala-15, Ser-32 to Lys-40.
HCRQD47R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7790 as residues: Ser-57 to Arg-64, Glu-71 to Gly-84, Arg-95 to Trp-100.
HCRQJ26R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7804 as residues: Asn-1 to Gly-9.
HCRQL13R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7808 as residues: Glu-22 to Gly-27.
HCRQL65R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7809 as residues: Arg-6 to Thr-11.
HCRQM37 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7810 as residues: Ala-42 to Pro-47, Pro-59 to Ser-66, Leu-79 to

	Arg-84, Gly-114 to Thr-119, Pro-132 to Gly-139.
HCRQM58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7812 as residues: Glu-1 to Thr-7, Leu-12 to Asn-18.
HCRQM59 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7813 as residues: Glu-6 to Gly-13, Pro-64 to Ala-70.
HCYBA36R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7818 as residues: Tyr-40 to Ser-48.
HCYBD19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7820 as residues: Ala-18 to Glu-26, Lys-39 to Glu-44, Phe-50 to Ser-55.
HCYBE34R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7822 as residues: Glu-27 to Pro-34, Ser-49 to Gln-54, Ser-56 to Thr-62, Asp-102 to Lys-107, Gly-113 to Glu-119.
HCYBH89R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7826 as residues: Pro-33 to Pro-47.
HCYBH93R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7827 as residues: Ser-11 to Thr-19, Arg-59 to Asp-65.
HDPPE11R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7830 as residues: Pro-1 to Ala-14, Pro-44 to Gly-51.
HDTDS96R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7835 as residues: Ser-17 to Pro-22.
HE8AE77R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7840 as residues: Ile-3 to Asn-9.
HEONL43R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7842 as residues: Arg-1 to Val-10.
HFKHA60R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7845 as residues: Pro-13 to Arg-18, Phe-27 to Glu-37, Ala-45 to Leu-53, Gln-61 to Glu-69, Ser-75 to Ser-82, Gln-84 to Gly-94, Ala-96 to Pro-112.
HFRBW76 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7847 as residues: Thr-2 to Gly-13.
HGBBA17R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7849 as residues: Asp-16 to Asn-22.
HHEQA63R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7853 as residues: Thr-13 to Ser-19, Ile-52 to Thr-59.
HHEWA82 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7854 as residues: Cys-10 to Glu-15.
HHMMA39 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7856 as residues: Arg-15 to Pro-21.
HHMMB13 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7861 as residues: Glu-35 to Val-42.
HHMME20 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7870 as residues: Thr-11 to Ala-17.
HJMBH59R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7881 as residues: Ser-8 to Phe-24.
HKCSB18R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7885 as residues: Arg-12 to Lys-19.
HKCSF11R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7889 as residues: Pro-18 to Ser-26.

HKCSJ63R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7892 as residues: Pro-6 to Gly-12.
HKCTB80R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7898 as residues: Ser-7 to Val-13, Arg-54 to Pro-62.
HKCTD27R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7900 as residues: Thr-9 to Gly-16.
HKLRA55R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7904 as residues: Arg-41 to Arg-47.
HKLSB04R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7912 as residues: Ser-27 to Leu-36, Glu-45 to Gly-52.
HKLSB05R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7913 as residues: Asn-1 to Phe-7, Val-15 to Met-20.
HKLSB41R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7914 as residues: Phe-13 to Ala-27, Gly-70 to Glu-77.
HKLSB76R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7915 as residues: Phe-1 to Gln-10.
HKLSC29R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7917 as residues: Ala-4 to Ser-12.
HKLSD79R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7922 as residues: Ser-8 to Gly-15.
HKLSD93R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7923 as residues: Gly-11 to Gly-17.
HNBTH48R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7928 as residues: Thr-7 to Ser-13.
HNTCO26R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7931 as residues: Arg-1 to Lys-10, Asn-18 to Thr-28.
HOCTA23R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7933 as residues: Phe-17 to Gly-22, Thr-40 to Val-47, Pro-58 to Gly-72, Pro-92 to Trp-109.
HOCTB19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7936 as residues: Gln-13 to Ser-34.
HOCTB32R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7937 as residues: Arg-1 to Lys-8, Phe-30 to Lys-35.
HOCTC38R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7941 as residues: Ser-6 to Ser-14, Val-16 to Gln-23, Gly-39 to Ser-45, Thr-52 to Ser-58.
HOCTD35R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7946 as residues: Cys-2 to Val-7.
HOCTE12R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7950 as residues: Asn-1 to Val-6, Pro-22 to Phe-29.
HOCTF43R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7953 as residues: Asp-22 to Gly-27, Arg-35 to Pro-43, Asp-63 to Ser-68.
HOHAS78R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7959 as residues: Ala-1 to Cys-20, Arg-29 to Ser-37, Leu-48 to Phe-54.
HOSNW54 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7961 as residues: Pro-1 to Asp-8, Asn-28 to Ser-33.
HPCRD42R	Preferred epitopes include those comprising a sequence shown in SEQ

	ID NO. 7963 as residues: Arg-1 to Glu-6, Arg-52 to Arg-57.
HPFCN76R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7965 as residues: Ser-1 to Cys-16, Pro-30 to Asp-40.
HPJBZ88R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7966 as residues: Pro-17 to Gly-27, Gly-30 to His-36, Phe-44 to Gly-54, Pro-56 to Ala-61.
HSIFC66R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7968 as residues: Glu-8 to Asn-13, Arg-16 to Thr-29.
HSOBF88R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7969 as residues: Asp-1 to Tyr-8.
HSODE15R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7970 as residues: Leu-8 to Ser-15, Gly-21 to Ser-27.
HTXRF56R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7974 as residues: Glu-1 to Arg-6, Ala-14 to Gly-27, Arg-31 to His-37.
HTYND19 RA	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7975 as residues: Glu-1 to Thr-15, Val-21 to Leu-27, Ser-37 to Arg-58, Met-82 to Asn-91.
HWLMA60 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7981 as residues: Leu-10 to Arg-16.
HWLMB42 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7984 as residues: Arg-24 to Arg-41.
HWLMC65 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7985 as residues: Phe-18 to Trp-23.
HWLMC79 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7986 as residues: Thr-30 to Thr-39.
HWLME59 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7989 as residues: Asp-26 to Cys-32.
HWLME69 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7990 as residues: Arg-11 to Gly-17.
HWLME71 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7991 as residues: Gln-1 to Gly-6.
HWLMG12 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7994 as residues: Asn-1 to Gly-10.
HWLMG15 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 7995 as residues: Pro-10 to Thr-16, Arg-39 to Gly-44.
HWLMG57 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8000 as residues: Ser-7 to Gly-17, Asn-35 to His-46.
HWLMG84 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8002 as residues: Ser-3 to Ala-23, Pro-25 to Gly-31, Ala-59 to Gly-80, Pro-83 to His-91, Gly-99 to Gly-110, Pro-112 to Trp-123.
HWLMH50 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8006 as residues: Ile-2 to Gln-7, Glu-21 to Gly-27.
HWLMJ80 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8010 as residues: Leu-65 to Thr-80.
HWLMK20 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8011 as residues: Ser-8 to Pro-19.
HWLMK25 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8012 as residues: Lys-1 to Ser-6.

HWLMK31 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8013 as residues: Arg-1 to Trp-10, Arg-15 to Gly-24.
HWLMK62 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8014 as residues: Gly-1 to Ala-10, Pro-42 to Pro-53.
HWLMM68 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8015 as residues: His-10 to Asn-16.
HWLMQ01 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8023 as residues: Asn-3 to Lys-12.
HWLMR23 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8025 as residues: Gly-9 to Lys-17.
HWLMR69 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8026 as residues: Asp-6 to Glu-13, Leu-63 to Gln-70.
HWLMS31 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8027 as residues: Pro-2 to Leu-7.
HWLMT64 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8030 as residues: Asp-1 to Gln-6.
HWLMU26 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8033 as residues: Pro-21 to Val-26, Val-28 to Val-37, Ser-44 to Tyr-49, Phe-53 to Leu-65.
HWLMV60 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8036 as residues: Ser-27 to Glu-39, Leu-43 to Gln-48.
HWLNH76 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8050 as residues: Cys-8 to His-24, Ser-36 to Arg-44.
HWLNL41 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8055 as residues: Pro-1 to Glu-22, Ala-31 to Asp-39, Glu-65 to Pro-72.
HWLNP65 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8061 as residues: Val-12 to Trp-17, Ile-22 to Ser-28.
HWLNR26 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8063 as residues: Glu-10 to Gly-28.
HWLNY40 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8080 as residues: Pro-1 to Arg-18.
HWLOA09 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8083 as residues: Tyr-13 to Phe-18, Gln-22 to Tyr-27, Pro-74 to Met-81.
HWLOC65 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8087 as residues: Arg-41 to Asn-50.
HWLOF46 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8090 as residues: Arg-11 to Val-19, Thr-28 to Ala-39.
HWLOI17R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8097 as residues: His-21 to Gly-29.
HWLOJ19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8102 as residues: Ser-20 to Leu-37.
HWLOK12 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8105 as residues: Arg-24 to Asn-29.
HWLOK45 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8107 as residues: His-20 to Pro-26.
HWLON66 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8112 as residues: Phe-1 to Gln-11.

HWLON71 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8113 as residues: Ala-1 to Tyr-8.
HWLOQ52 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8115 as residues: Cys-2 to Asn-8.
HWLOR15 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8117 as residues: Asp-1 to Gly-10, Thr-53 to Asp-59.
HWLOR65 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8118 as residues: Gly-16 to Gln-26, Gly-31 to Lys-37.
HWLOX29 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8132 as residues: Ser-16 to Ser-22.
HWLOY73 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8135 as residues: Pro-1 to Val-11, Pro-13 to Gln-20, Pro-39 to Pro-46, Gln-51 to Ala-73.
HWLOZ87 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8137 as residues: Gln-20 to Ser-27, Gln-42 to Ser-48.
HWLQA28 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8140 as residues: Lys-40 to Asn-55.
HWLQD30 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8147 as residues: Pro-6 to Pro-13, Gly-19 to Lys-39.
HWLQD40 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8148 as residues: Pro-14 to Asn-19, Glu-51 to Asn-57, Ser-67 to Pro-75.
HWLQD46 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8151 as residues: Gly-28 to Leu-33.
HWLQD89 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8152 as residues: Lys-2 to Lys-7.
HWLQH32 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8164 as residues: Asn-19 to Thr-27.
HWLQH58 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8165 as residues: Pro-45 to Asp-52.
HWLQM69 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8169 as residues: Glu-6 to Pro-12.
HWLQP18 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8175 as residues: Ser-2 to Ala-11.
HWLQQ83 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8177 as residues: Ser-26 to Gly-37, Pro-44 to Ser-50.
HWLQR90 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8178 as residues: Gln-1 to Trp-9, Val-17 to Glu-22.
HWLQT52 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8182 as residues: Gly-1 to Ser-10, Arg-16 to Met-22, Ser-24 to Trp-29, Gly-37 to Arg-44, Gly-52 to Ser-59, Arg-67 to Ser-85, Thr-107 to Gly-114.
HWLQU50 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8185 as residues: Tyr-26 to Cys-34, Thr-45 to Asn-50.
HWLRB15 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8191 as residues: Leu-8 to His-14, Ser-17 to Trp-31, Thr-44 to Gln-50, Ala-53 to Ala-61, Thr-72 to Ala-90, Val-116 to Leu-123.
HWLRE01 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8194 as residues: Ser-9 to Asn-19, Asn-34 to Cys-41.

HWLRO35 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8206 as residues: Ile-20 to Thr-29, Lys-39 to Ala-46.
HWLRV63 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8218 as residues: Glu-15 to Cys-26, Arg-34 to Ile-58.
HWLUG53 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8222 as residues: Asn-17 to Lys-27.
HWLUH72 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8225 as residues: Asp-58 to Cys-72, Gln-81 to Glu-89.
HWLUJ19R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8231 as residues: Ser-49 to Ser-55.
HWLUL47 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8236 as residues: Lys-18 to Lys-24.
HWLUL65 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8237 as residues: Asp-1 to His-8.
HWLUQ87 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8254 as residues: Cys-34 to Arg-41.
HWLUR41 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8256 as residues: Ser-24 to Trp-30.
HWLUU88 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8261 as residues: Pro-9 to Gly-20.
HWLUV67 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8264 as residues: Pro-5 to Arg-13.
HWLUZ07 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8269 as residues: Glu-1 to Gly-8.
HWLVD26 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8275 as residues: Arg-11 to Asp-16.
HWLVD74 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8278 as residues: His-1 to Thr-10.
HWLVE21 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8279 as residues: Leu-33 to Glu-40, Lys-52 to Lys-62.
HWLVF34 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8282 as residues: Arg-54 to His-62.
HWLVJ15R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8289 as residues: Phe-38 to Phe-44.
HWLVJ84R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8290 as residues: Asn-2 to Gly-33, Ser-35 to Phe-63.
HWLVK62 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8292 as residues: Ser-1 to Glu-13.
HWLVL10 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8295 as residues: Arg-1 to Thr-8.
HWLVM05 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8298 as residues: Ala-8 to Asn-15.
HWLVN12 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8301 as residues: Gln-1 to Tyr-6.
HWLVV06 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8310 as residues: Arg-1 to Arg-14.
HWLVW89 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8317 as residues: Asn-6 to Gly-11.
HWLVY14	Preferred epitopes include those comprising a sequence shown in SEQ

R	ID NO. 8320 as residues: Ser-1 to Trp-7.
HWLWA14 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8324 as residues: Thr-1 to Trp-9.
HWLWA82 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8325 as residues: Val-1 to Ser-8, Arg-52 to Gly-58.
HWLWB71 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8331 as residues: Cys-28 to Trp-42.
HWLWB77 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8333 as residues: Cys-40 to Trp-47.
HWLWD32 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8334 as residues: Gly-13 to Ala-21.
HWLWD60 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8336 as residues: Tyr-16 to Phe-22.
HWLWE80 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8339 as residues: Gly-1 to Trp-6.
HWLWJ36 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8346 as residues: Asp-11 to Asn-25.
HWLWO57 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8353 as residues: Ser-1 to Phe-6.
HWLWP08 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8357 as residues: Arg-4 to Val-12.
HWLWS28 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8369 as residues: Arg-4 to Tyr-9.
HWLWU27 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8373 as residues: Ala-16 to Phe-21.
HWLWW4 6R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8374 as residues: Ser-6 to Ser-16.
HWLXA13 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8380 as residues: Asp-8 to Ser-17.
HWLXA23 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8381 as residues: Pro-10 to Ile-20.
HWLXJ59R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8388 as residues: Pro-7 to Ser-13.
HWLXN33 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8391 as residues: Glu-1 to Gly-7.
HWLXP33 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8395 as residues: Thr-3 to Lys-13.
HWLXP45 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8396 as residues: Gly-10 to Gly-22, Pro-27 to Arg-35.
HWLXR49 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8403 as residues: Gly-10 to Pro-15.
HWLXT31 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8405 as residues: Gly-10 to Glu-15, Ser-31 to Lys-36.
HWMB46 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8410 as residues: Phe-11 to Lys-17.
HWMBD22 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8411 as residues: Pro-11 to Ala-18.
HWMBD71 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8413 as residues: Asp-4 to Leu-9.

HWMBE36 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8415 as residues: Tyr-12 to Met-18.
HWMBF87 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8416 as residues: Gly-1 to Arg-6.
HWMBG63 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8417 as residues: Glu-1 to Ser-9.
HWMBI08 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8420 as residues: Arg-29 to His-37, Trp-43 to Arg-48.
HWMBK47 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8423 as residues: Asn-6 to His-11, Asn-25 to Cys-30.
HWMBL29 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8425 as residues: Leu-11 to Phe-16.
HWMBL57 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8426 as residues: Glu-46 to Tyr-57.
HWMBL82 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8427 as residues: Leu-27 to Thr-67, His-74 to Asn-79, Ser-83 to Lys-94, Gln-109 to Lys-115, Asp-122 to Tyr-131, Leu-138 to Arg-145, Glu-149 to Lys-154.
HWMBM67 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8430 as residues: Gly-32 to Arg-37, Ala-41 to Asp-47.
HWMBM83 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8431 as residues: Thr-21 to Asn-31.
HWMBN52 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8435 as residues: Thr-21 to Glu-34, Leu-50 to Cys-56.
HWMBP01 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8437 as residues: Ser-9 to Ile-17.
HWMBR40 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8443 as residues: Pro-8 to Glu-19.
HWMBR68 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8446 as residues: Tyr-1 to Trp-6.
HWMBR77 RA	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8448 as residues: Lys-1 to Val-8.
HWMBT23 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8454 as residues: Val-3 to Arg-14.
HWMBV48 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8458 as residues: Pro-51 to Ser-57, Gln-65 to Leu-76.
HWMBW5 4R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8460 as residues: Pro-55 to Glu-63.
HWMBY90 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8466 as residues: Thr-1 to Arg-6.
HWMCB93 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8473 as residues: His-1 to Ala-13.
HWMCCE24 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8480 as residues: Asn-6 to Lys-12.
HWMCFF45 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8482 as residues: Pro-10 to Phe-16.
HWMCCH47 R	Preferred epitopes include those comprising a sequence shown in SEQ ID NO. 8484 as residues: Pro-16 to Ser-24.
HWMCCH76	Preferred epitopes include those comprising a sequence shown in SEQ